

Package: rvdat (via r-universe)

October 5, 2026

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

Repository <https://ocean-tracking-network.r-universe.dev>

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CI_utilities	<i>Miscellaneous functions for package checking, building, and CI</i>
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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	<i>Interface directly with vdat.exe.</i>
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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	<i>Write the location of vdat.exe to the environmental variables.</i>
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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	<i>Return general VDAT file metadata</i>
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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	<i>Return description fields ("template") of different VDAT data types and/or files</i>
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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 FALSE. Print the output to console?
...	arguments passed to vdat_call .

vdat_to	<i>Internal vdat convert caller</i>
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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	<i>Convert VDAT file to CSV</i>
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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	<i>Convert a VDAT file to a folder of CSVs by data type</i>
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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.
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Examples

vdat_to_json	<i>Convert VDAT file to JSON</i>
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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	<i>Report the version of VDAT identified in vdat_here.</i>
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Description

Report the version of VDAT identified in [vdat_here](#).

Usage

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

Arguments

...	arguments passed to vdat_call.
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Examples

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