

# Package: rvdat (via r-universe)

September 6, 2024

**Title** Lightweight Access to 'VDAT' Shell Commands

**Version** 0.0.1.900

**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** 7.3.1

**VignetteBuilder** knitr

**Config/testthat/edition** 3

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

**RemoteUrl** <https://github.com/mhpob/rvdat>

**RemoteRef** HEAD

**RemoteSha** 80fe5bd7d84f5c86d5ee18f520bd6db4a111f354

## Contents

CI_utilities . . . . .	2
vdat_call . . . . .	2
vdat_here . . . . .	3
vdat_inspect . . . . .	3
vdat_template . . . . .	4
vdat_to . . . . .	4

vdat_to_csv . . . . .	5
vdat_to_folder . . . . .	6
vdat_to_json . . . . .	6
vdat_version . . . . .	7

<b>Index</b>	<b>8</b>
--------------	----------

---

CI_utilities	<i>Miscellaneous functions for package checking, building, and CI</i>
--------------	---

---

### 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>
-----------	--

---

### 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 <code>sys::exec_internal</code> .

**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>User-supplied location of vdat.exe.</i>
-----------	--

---

**Description**

User-supplied location of vdat.exe.

**Usage**

```
vdat_here(here)
```

**Arguments**

here	location of vdat.exe, either a full path name or relative to the current working directory.
------	---

**Examples**

```
vdat_here("c:/program files/innovasea/fathom/vdat.exe")
```

---

vdat_inspect	<i>Return general VDAT file metadata</i>
--------------	--

---

**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>
---------------	---

---

**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>
---------	-------------------------------------

---

**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	<i>Convert a VDAT file to a folder of CSVs by data type</i>
----------------	---

---

**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	<i>Convert VDAT file to JSON</i>
--------------	----------------------------------

---

**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 <a href="#">vdat_here</a>.</i>
--------------	--

---

**Description**

Report the version of VDAT identified in [vdat\\_here](#).

**Usage**

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

**Arguments**

... arguments passed to vdat\_call.

**Examples**

```
vdat_version()
```

# Index

`CI_utilities`, 2

`skip_example_on_ci` (`CI_utilities`), 2

`skip_example_on_runiverse`  
(`CI_utilities`), 2

`sys::exec_internal`, 2

`vdat_call`, 2, 4

`vdat_here`, 3, 7

`vdat_inspect`, 3

`vdat_template`, 4

`vdat_to`, 4

`vdat_to_csv`, 5

`vdat_to_folder`, 6

`vdat_to_json`, 6

`vdat_version`, 7