Package 'actogrammr'

May 7, 2026

Type Package

Title Read in Activity Data and Plot Actograms

Version 0.2.3

Description Read in activity measurements from standard file formats
used by circadian rhythm researchers, currently only 'ClockLab' format,
and process and plot the data. The central type of plot is the actogram,
as first described by in ``Activity and distribution of certain wild mice
in relation to biotic communities" by MS Johnson (1926) <doi:10.2307/1373575>.

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests testthat, covr

Imports dplyr, ggplot2, lubridate, readr, tidyr

NeedsCompilation no

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Repository CRAN

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Contents

bin_data *bin_data*

Description

function to bin data time-wise

Usage

```
bin_data(data, minutes_per_bin)
```

Arguments

data	the activity data to bin
minutes_per_bin	number of minutes per bin

Value

the data, after binning

Examples

```
f <- file.path(system.file(package = 'actogrammr'), 'testdata')
d <- read_clock_lab_files(file_names = list.files(path = f, full.names = TRUE))
b <- bin_data(data = d, minutes_per_bin = 6)
```

plot_actogram *plot_actogram*

Description

plots an actogram

Usage

```
plot_actogram(data, start_date = min(data$date), end_date = max(data$date))
```

Arguments

data	the activity data to plot
start_date	the start time
end_date	the end time

Value

the plot

Examples

```
f <- file.path(system.file(package = 'actogrammr'), 'testdata')
d <- read_clock_lab_files(file_names = list.files(path = f, full.names = TRUE))
b <- bin_data(data = d, minutes_per_bin = 6)
## Not run:
plot_actogram(data = b, start_date = '2010-01-01')

## End(Not run)
```

`read_clock_lab_files` *read_clock_lab_files*

Description

reads binary files in clocklab format

Usage

```
read_clock_lab_files(file_names)
```

Arguments

`file_names`	the names of the files to read. Should be the result of a call to list.files(..., full.names = TRUE)

Value

a big data.frame

Examples

```
f <- file.path(system.file(package = 'actogrammr'), 'testdata')
d <- read_clock_lab_files(file_names = list.files(path = f, full.names = TRUE))
```

Index