Package 'actogrammr'

October 12, 2022

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>.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests testthat, covr

Imports dplyr, ggplot2, lubridate, readr, tidyr

NeedsCompilation no

Author Robert Corty [aut, cre]

Maintainer Robert Corty <rcorty@gmail.com>

Repository CRAN

Date/Publication 2017-10-25 17:24:10 UTC

R topics documented:

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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)
```

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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)
```

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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))
```

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