

Package ‘actogrammr’

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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](https://doi.org/10.2307/1373575)>.
License GPL-3
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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)
```

`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)
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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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