

Package ‘actisensorlog’

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Type Package

Title Summarize 'SensorLog'/'SensorLogger' Activity Data

Version 0.3.0

Description Provides functions for analyzing 'SensorLog'
<<https://sensorlog.berndthomas.net/>> and 'SensorLogger'
<<https://www.tszheichoi.com/sensorlogger>> data.

License GPL-3

Depends R (>= 4.1.0)

Suggests testthat (>= 3.0.0), covr, knitr, rmarkdown

Encoding UTF-8

Imports actibase (>= 0.8.0), actiread, assertthat, dplyr, geosphere,
janitor, lubridate, lutz, tidyr

Config/roxygen2/version 8.1.1

URL <https://github.com/jhuwit/actisensorlog>,
<https://jhuwit.github.io/actisensorlog/>

BugReports <https://github.com/jhuwit/actisensorlog/issues>

Config/testthat/edition 3

NeedsCompilation no

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acti_process_sensorlog

Process SensorLog Data

Description

Process SensorLog Data

Usage

```
acti_process_sensorlog(
  data,
  lat = NULL,
  lon = NULL,
  dist_fun = geosphere::distVincentyEllipsoid,
  expected_timezone = NULL,
  check_data = TRUE,
  remove_cols = c("file", "index"),
  verbose = TRUE,
  ...,
  distance_cutoff = 180
)

acti_check_duplicate_times(data, remove_cols = c("file", "index"))

acti_calculate_distance(
  data,
  lat,
  lon,
  distance_cutoff = 180,
  dist_fun = geosphere::distVincentyEllipsoid,
  fast = TRUE
)
```

Arguments

data	A SensorLog-style data.frame
lat	Latitude of central point (e.g. home) to calculate distance. Set to NULL if distance should not be calculated.
lon	Longitude of central point (e.g. home) to calculate distance Set to NULL if distance should not be calculated.
dist_fun	Distance function to pass to geosphere::distm
expected_timezone	Expected Timezone based on the latitude/longitude of the data based on the lat/lon values from SensorLog (e.g. "America/New_York"). Set to NULL if not to be checked.

check_data	should acti_check_duplicate_times be run?
remove_cols	columns to remove from duplicate checking in acti_check_duplicate_times . Default is c("file", "index")
verbose	print diagnostic messages. Either logical or integer, where higher values are higher levels of verbosity.
...	additional arguments to pass to acti_sensorlog_process_time , including apply_tz and tz
distance_cutoff	Distance in meters to consider within home, in meters
fast	Calculate distance on the distinct latitude/longitude, not the full data. Should be used unless some precision looks wrong.

Value

A data.frame of transformed data

Note

This calls [acti_check_duplicate_times](#), [acti_calculate_distance](#), and [acti_sensorlog_process_time](#)

Examples

```
sensorlog = suppressMessages(
  actiread::acti_read_sensorlog(actiread::acti_example_sensorlog_file())
)
sensorlog = dplyr::distinct(sensorlog, time, .keep_all = TRUE)
result = acti_process_sensorlog(
  sensorlog,
  lat = 39.3,
  lon = -76.6,
  expected_timezone = "America/New_York",
  check_data = FALSE
)
head(result)
minute = acti_minute_sensorlog(result)
summary = acti_summarize_sensorlog(result)
```

acti_sensorlog_process_time

Process the Time data from SensorLog and Compare to an Expected Timezone

Description

Process the Time data from SensorLog and Compare to an Expected Timezone

Usage

```
acti_sensorlog_process_time(  
  data,  
  expected_timezone = "America/New_York",  
  tz = "GMT",  
  apply_tz = TRUE,  
  check_data = TRUE,  
  verbose = TRUE,  
  ...  
)
```

Arguments

data	A SensorLog-style data.frame
expected_timezone	Expected Timezone based on the latitude/longitude of the data based on the lat/lon values from SensorLog (e.g. "America/New_York"). Set to NULL if not to be checked.
tz	timezone to project the data into. Keeping as GMT and should have same value for apply_tz to agree (caution: always check data) with ActiGraph, passed to lubridate::as_datetime .
apply_tz	Apply the timezone from the timezone shift from the timezone, e.g. "2025-03-11T14:44:11-04:00" becomes "2025-03-11T18:44:11" if apply_tz = TRUE, but "2025-03-11T14:44:11" if apply_tz = FALSE.
check_data	if TRUE any duplicates for time are checked for.
verbose	print diagnostic messages. Either logical or integer, where higher values are higher levels of verbosity.
...	additional arguments to pass to lutz::tz_lookup_coords()

Value

A data.frame

acti_summarize_sensorlog
<i>Summarize SensorLog Data</i>

Description

Summarize SensorLog Data

Usage

```
acti_summarize_sensorlog(data)

acti_summarise_sensorlog(data)

acti_minute_sensorlog(data, seconds = 60L)

acti_summarize_distance_sensorlog(data)
```

Arguments

data	A SensorLog-style <code>data.frame</code> , usually output from acti_process_sensorlog
seconds	number of seconds to summarize the data for the "minute" level, or a string such as "1 min" (see actibase::acti_standardize_epoch()). Usually 1 minute/60 seconds. For <code>acti_summarize_distance_sensorlog</code> , summarization is done depending on how the data is grouped.

Value

The `data.frame` with the summarized data for each date

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