Package 'runR'

March 10, 2018

Title Load,

Version 0.0.0.9000

Description The runR package allows you to import your runs, ski trips, bike rides and other movements and analyze, vizualize and optimize your efforts.

Depends R (>= 3.4.1),
ggplot2,
rgdal,
sp

License MIT

Encoding UTF-8

URL https://www.schliebs.github.io/runR

BugReports https://www.github.com/schliebs/runR

LazyData true

Imports plyr,
tidyverse,
hrbrthemes,
leaflet,
lubridate,
magrittr,
rgdal,
sp,
stringr

RoxygenNote 6.0.1

Collate 'create_manual.R'
'importFrom.R'
'data_import.R'
'summarize_run.R'
'weather_data.R'
'elevPlot.R'
'runPlot.R'
'data.R'

Suggests knitr,
rmarkdown

VignetteBuilder knitr

R topics documented:

`alpine_skiing` *Example Alpine Skiing*

Description

An alpine skiing afternoon in St. Moritz, Switzerland

Usage

```
alpine_skiing
```

Format

A data frame with 4707 rows and 7 variables:

pointID ID for each track point

ele elevation above sealevel in meters

time time (in POSIXct-format)

distance distance since the last trackpoint

cumulative.distance cumulative distance since the beginnning

x x-coordinate (longitude (East-West-Dimension))

y y-coordinate (longitude (North-South-Dimension))

`cc_skiing` *Example 15k cross country skiing*

Description

A 15k cross country skiing session in St. Moritz, Switzerland

Usage

```
cc_skiing
```

Format

A data frame with 1559 rows and 7 variables:

pointID ID for each track point

ele elevation above sealevel in meters

time time (in POSIXct-format)

distance distance since the last trackpoint

cumulative.distance cumulative distance since the beginnning

x x-coordinate (longitude (East-West-Dimension))

y y-coordinate (longitude (North-South-Dimension))

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fn_running *Example 5k run.*

Description

A 5k run I did in my current university town Friedrichshafen, Germany.

Usage

```
fn_running
```

Format

A data frame with 500 rows and 7 variables:

pointID ID for each track point

ele elevation above sealevel in meters

time time (in POSIXct-format)

distance distance since the last trackpoint

cumulative.distance cumulative distance since the beginnning

x x-coordinate (longitude (East-West-Dimension))

y y-coordinate (longitude (North-South-Dimension))

import_logfolder *Import log-file folder*

Description

Import a folder of log files to a list.

Usage

```
import_logfolder(folderpath = "data", type = "gpx", track_progress = TRUE)
```

Arguments

folderpath	path of the folder containing the files.
type	Type of log-files: currently, only gpx is supported.
track_progress	T/F if data loading progress tracking is wished for

Value

A list containing a data frame for each logfile.

Remark

So far, only the gpx-format from Sportstracker is implemented.

Examples

```
## Not run:
runlist <- import_logfolder(folderpath = 'data',type = 'gpx')
head(test[[1]])

## End(Not run)
```

import_run *Import Run*

Description

Import Run (Standard: GPX) to Data Frame

Usage

```
import_run(file = "data/2017-11-06.gpx", type = "gpx",
  track_progress = TRUE)
```

Arguments

file	path and file name.
type	Type of log-file: currently, only gpx is supported.
track_progress	T/F if data loading progress tracking is wished for

Value

A data frame data about XXXXXXX.

Remark

So far, only the gpx-format from Sportstracker is implemented.

Examples

```
## Not run:
run <- import_run(file = 'data/2017-11-06.gpx',type = 'gpx')
head(run)

## End(Not run)
```

`run2elev` *RunElecation*

Description

Visualize ...

Usage

```
run2elev(data = alpine_skiing, mapping, smooth = 1)
```

Arguments

`run`	a run data frame returned by `import_run`.

Value

A ggplot object.

Examples

```
data("alpine_skiing")
run2elev(data = alpine_skiing,
         smooth = 0.3)
```

run2map *Run2Map*

Description

Visualize Run2Map

Usage

```
run2map(run_track = import_run(file = "data/2017-11-06.gpx", layer =
  "tracks"))
```

Arguments

run	a run data frame returned by import_run.

Value

A ggplot object.

Warning

Do not operate heavy machinery within 8 hours of using this function.

Examples

```
run <- import_run(file = 'data/2017-11-06.gpx',type = 'gpx')
head(run)
```

stuggi_running *Example 10k run*

Description

A 10k run I did in my home town Stuttgart, Germany.

Usage

```
stuggi_running
```

Format

A data frame with 1060 rows and 7 variables:

pointID ID for each track point

ele elevation above sealevel in meters

time time (in POSIXct-format)

distance distance since the last trackpoint

cumulative.distance cumulative distance since the beginnning

x x-coordinate (longitude (East-West-Dimension))

y y-coordinate (longitude (North-South-Dimension))

summariseRun *SummarizeRun*

Description

Get summary statistics for run

Usage

```
summariseRun(run = stuggi_running)
```

Arguments

run	a run data frame returned by `import_run`.

Value

A list with summary statistics.

total_duration Total duration as `Formal Duration class`

total_duration_seconds Total duration in seconds

total_duration_hours Total duration in hours

average_speed_kph Average speed in kilometers per hour

total_distance The total distance in kilometers

Examples

```
data(stuggi_running)
summariseRun(run = stuggi_running)
```

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