

Package: rrstools (via r-universe)

February 17, 2025

Title Tools for Analyzing RoboCupRescue Simulation Data

Version 0.0.1

Description Provides functions for analyzing RoboCupRescue Simulation data.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Imports graphics, sf, xml2

URL <https://nononoexe.github.io/rrstools/>

Config/pak/sysreqs libgdal-dev gdal-bin libgeos-dev libxml2-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev

Repository <https://nononoexe.r-universe.dev>

RemoteUrl <https://github.com/NONONOexe/rrstools>

RemoteRef HEAD

RemoteSha 7ecd22aacc1b1d739ac716d26c0b7743d44a6081

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plot.rrs_map	<i>Plot a rrs map</i>
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Description

This function plots a rrs map

Usage

```
## S3 method for class 'rrs_map'  
plot(  
  x,  
  building_colour = "#f0e7d8",  
  building_border = "#121212",  
  road_colour = "#dbdbdb",  
  road_border = "#121212",  
  background_colour = NA,  
  ...  
)
```

Arguments

x	An object class rrs_map.
building_colour	The colour of the buildings.
building_border	The border colour of the buildings.
road_colour	The colour of the roads.
road_border	The border colour of the roads.
background_colour	The background colour of the plot.
...	Additional arguments passed to par.

Examples

```
gml <- system.file("extdata", "map-test.gml", package = "rrstools")  
map_data <- read_rrs_map(gml)  
plot(map_data)
```

read_rrs_map	<i>Read RoboCupRescue Simulation map data from GML file</i>
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Description

This function reads and processes map data for RoboCupRescue Simulation from a GML file. It extracts nodes, edges, buildings and roads, and organizes them into a list.

Usage

```
read_rrs_map(gml, scale_data = FALSE)
```

Arguments

gml	Path to the GML file.
scale_data	Logical. If TRUE, coordinates are scaled up by a factor of 1000 to match the simulation environment, and adjusted such that the minimum x and y values are 0. (Default: TRUE)

Value

A list of sf objects: nodes, edges, buildings, and roads.

Examples

```
gml <- system.file("extdata", "map-test.gml", package = "rrstools")
map_data <- read_rrs_map(gml)
map_data
```

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