# Package 'roughsf'

October 14, 2022

**Title** Visualize Spatial Data using 'roughjs'

**Version** 1.0.0

**Description** Draw maps using the 'javascript' library 'roughjs'. This allows to draw sketchy, hand-drawn-like maps.

**URL** https://github.com/schochastics/roughsf

**BugReports** https://github.com/schochastics/roughsf/issues

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.2.1

**Imports** htmlwidgets, jsonlite, sf

**Suggests** pagedown

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

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roughsf                          *Create a rough map*

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**Description**

plot a sf map using rough.js

**Usage**

```
roughsf(
  layers,
  roughness = 1,
  bowing = 1,
  simplification = 1,
  font = "30px Arial",
  title = NULL,
  title_font = "30px Arial",
  caption = NULL,
  caption_font = "30px Arial",
  width = NULL,
  height = NULL,
  elementId = NULL,
  chunk_name = "canvas"
)
```

**Arguments**

| | |
|---|---|
| layers | an sf object or a list of sf object. each object should only contain one type of geometry. |
| roughness | numeric vector for roughness of lines |
| bowing | numeric vector for bowing of lines |
| simplification | simplify drawings (remove points from objects) |
| font | font size and font family for labels |
| title | optional title of the map |
| title_font | font size and font family for title |
| caption | optional caption of the map |
| caption_font | font size and font family for caption |
| width | width |
| height | height |
| elementId | DOM id |
| chunk_name | markdown specific |

**Details**

The following attributes are supported for POLYGONS:

- *fill* fill color
- *color* stroke color
- *stroke* stroke size
- *fillstyle* one of "hachure", "solid", "zigzag", "cross-hatch", "dots", "dashed", "zigzag-line"
- *fillweight* thickness of fillstyle (between 0 and 1)
- *hachureangle* angle of hachure lines
- *hachuregap* gap between two hachure lines

The following attributes are supported for LINESTRINGS:

- *color* stroke color
- *stroke* stroke size

The following attributes are supported for POINTS:

- *color* color of point
- *size* size of point
- *label* label to be added (optional)
- *label_pos* position of label relative to point: (c)enter, (n)orth, (e)ast, (s)outh, (w)est (optional)

Default values are used if one of the attributes is not found.

The result of a roughsf call can be printed to file with save_roughsf()

**Value**

htmlwidget containing the drawn network

**References**

More details on roughjs can be found on https://github.com/rough-stuff/rough/wiki

**Examples**

```
library(sf)
demo(nc, ask = FALSE, echo = FALSE)
nc_poly <- st_cast(nc,"POLYGON",warn = FALSE)
roughsf(nc_poly)
```

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save_roughsf                          *Save roughsf plot to file*

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### Description

Save roughsf plot to file

### Usage

```
save_roughsf(rsf, file, background = "white", wait = 4)
```

### Arguments

| | |
|---|---|
| rsf | result from calling the function roughsf |
| file | filename |
| background | string giving the html background color |
| wait | time in seconds to wait for page load |

### Value

No return value, called for side effect

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