

Package: rusterize (via r-universe)

July 11, 2026

Title Extremely fast rasterization engine built in Rust for R

Version 0.1.0

Description Rasterization engine that handles all sf-supported geometries and returns a terra object.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 8.0.0

SystemRequirements Cargo (Rust's package manager), rustc

Imports terra (>= 1.9.34), sf (>= 1.1.1)

Suggests testthat (>= 3.0.0), devtools (>= 2.5.2)

Config/testthat/edition 3

Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev libclang-dev

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

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RemoteUrl <https://github.com/trotto/rusterize>

RemoteRef HEAD

RemoteSha 9884d14d9cbcd8d88b3cdb3746eb921be3b148b6

RemoteSubdir R/rusterize

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 rusterize

Extremely fast rasterization engine built in Rust for R

Description

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Usage

```
rusterize(
  data,
  like = NULL,
  resolution = NULL,
  out_shape = NULL,
  extent = NULL,
  field = NULL,
  by = NULL,
  burn = NULL,
  fun = "last",
  background = NA,
  encoding = "dense",
  all_touched = FALSE,
  tap = FALSE,
  dtype = "double"
)
```

Arguments

data	An sf or sfc object of geometries.
like	A terra template used as a spatial blueprint (resolution, dimension, extent). Mutually exclusive with resolution, out_shape, and extent.
resolution	Pixel resolution as c(xres, yres) (or a list).
out_shape	Output raster dimensions as c(nrows, ncols) (or a list).
extent	Spatial bounding box as c(xmin, ymin, xmax, ymax) (or a list).
field	Column name to use for pixel values. Mutually exclusive with burn.
by	Column used for grouping. Each group is rasterized into a distinct band in the output.
burn	A static value or a list of values to apply to each geometries. If a vector, it must match the length of the geometry data. Mutually exclusive with field. If a vector, its dtype should match the output dtype, else it will be internally casted.
fun	Pixel function to use when burning geometries. Available options: sum, first, last, min, max, count, or any.
background	Value assigned to pixels not covered by any geometry. Defaults to NA.
encoding	The format of the returned object: "dense" or "sparse".

<code>all_touched</code>	If True, every pixel touched by a geometry is burned.
<code>tap</code>	Target Aligned Pixels: aligns the extent to the pixel resolution.
<code>dtype</code>	Output data type: "integer" or "double".

Value

A terra object or a SparseArray in COOrdinate format.

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