

Package: isoraster (via r-universe)

May 15, 2026

Title Create Contour Lines and Contour Polygons from a Raster

Version 0.0.1

Description Creates nice smooth 'marching squares' contour lines and polygons.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

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Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://github.com/hypertidy/isoraster>

BugReports <https://github.com/hypertidy/isoraster/issues>

Imports isoband, sf

Depends terra

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

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

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isoline_terra	<i>Iso bands and iso lines for terra</i>
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Description

Produce contours for a raster and return a vector dataset.

Usage

```
isoline_terra(x, line)
isoband_terra(x, lo, hi = NULL)
```

Arguments

x	a terra raster, only first layer is considered
line	a contour level for isoline_terra
lo	a polygon level interval minimum for the low values (must have a corresponding hi value)
hi	a polygon level interval maximum for the high values (cf. lo)

Details

isoline_terra returns lines, use 'line' to specify or an automatic set will be computed

isoband_terra returns polygons, use 'lo' AND 'hi' to specify breaks, or an automatic set will be computed

These lines and boundaries are nice because isoband uses marching squares, not literal pixel outlines.

Value

SpatVector object, for isoline_terra a table of spatial lines with 'line' contour value, for isoband_terra a table of spatial polygons with 'lo' and 'hi' contour values

Examples

```
isoline_terra(rast(volcano))
isoband_terra(rast(volcano), lo = 100, hi = 150)
```

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