Package: quad (via r-universe)

September 6, 2024

Title Intermediate Forms of Raster Grids

Version 0.0.1

Description Raster grids and quads as first class types with helpers. Provides a low level API for generating mesh index and vertices from the simplest abstraction of raster grid, input dimension and (optionally) extent to generate components of meshes for downstream visualization and efficient coordinate transformation. API functions may be 'Linked To' in the R headers library way.

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Suggests testthat (>= 3.0.0)

RoxygenNote 7.2.3

URL https://github.com/hypertidy/quad, https://hypertidy.github.io/quad/

BugReports https://github.com/hypertidy/quad/issues

LinkingTo cpp11

SystemRequirements C++11

Config/testthat/edition 3

Depends R (>= 2.10)

LazyData true

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

RemoteUrl https://github.com/hypertidy/quad

RemoteRef HEAD

RemoteSha 64b6dce0cb6e74cb14485edacf0d83e986a46038

Contents

`elev` *Elevation data*

Description

An elevation data set of the world.

Details

A matrix of 360x180 with elevation values for the world on the extent 'c(xmin = -180, xmax = 180, ymin = -90, ymax = 90)'. The data is in "raster-order", i.e. the order used by [rasterImage()]. See the [ximage package](https://github.com/hypertidy/ximage) for convenient visualization.

Data obtained from GEBCO 2021, see the 'data-raw/' folder for details.

`quad_index` *Title*

Description

Title

Usage

```
quad_index(dimension, ydown = TRUE)
```

Arguments

`dimension`

`ydown`

`quad_vert` *Title*

Description

Title

Usage

```
quad_vert(dimension, ydown = TRUE, zh = FALSE)
```

Arguments

`dimension`

`ydown`

`zh`

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