

Package ‘divagis’

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Type Package

Title Provides tools for quality checks of georeferenced plant species accessions.

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Description Provides tools for quality checks of georeferenced plant species accessions.

License GPL (>= 2)

Depends rgdal, sp

LazyLoad yes

Repository CRAN

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NeedsCompilation no

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`extract.val`*Extract layer values by latlon*

Description

This function is a convenience wrapper function to extract variable values from a database of geographical layers.

Usage

```
extract.val(latlon, layers)
```

Arguments

<code>latlon</code>	<code>latlon</code> is a matrix of two columns for latitude and longitude.
<code>layers</code>	<code>layers</code> is a list of complete layer names. The name is used for display; the value are used for reading the layers.

Details

See description. The function assumes so far that the layers are in a format readable by `readGDAL`; all layers must be standardized to the same reference grid and resolution.

Value

Returns a matrix of several columns containing the original lat/lon, the converted sequential id based on the grid, and the extracted values.

Author(s)

Reinhard Simon

References

none

Examples

```
# to be done
```

<code>latlon2idx</code>	<i>latlon2idx</i>
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Description

A sequential index number based on lat/lon and a reference grid.

Usage

```
latlon2idx(lat, lon, layer)
```

Arguments

<code>lat</code>	Latitude
<code>lon</code>	Longitude
<code>layer</code>	A reference layer.

Value

Returns a an index number.

Author(s)

Reinhard Simon

References

none

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*Topic **manip**

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