

# Package ‘divagis’

April 17, 2009

**Type** Package

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

**Version** 1.0.0

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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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## R topics documented:

extract.val . . . . .	2
latlon2idx . . . . .	3

<b>Index</b>	<b>4</b>
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`extract.val`*Extract layer values by latlon*

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### 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
```

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<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

# Index

\*Topic **manip**

  extract.val, [1](#)

  latlon2idx, [2](#)

extract.val, [1](#)

latlon2idx, [2](#)