## Package ‘plattice’

October 14, 2022

<table>
<thead>
<tr>
<th>Type</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Lattice Plot for Panel Data</td>
</tr>
<tr>
<td>Version</td>
<td>1.0</td>
</tr>
<tr>
<td>Date</td>
<td>2022-10-01</td>
</tr>
<tr>
<td>Author</td>
<td>Michail Tsagris [aut, cre], Christos Adam [aut]</td>
</tr>
<tr>
<td>Maintainer</td>
<td>Michail Tsagris <a href="mailto:mtsagris@uoc.gr">mtsagris@uoc.gr</a></td>
</tr>
<tr>
<td>Description</td>
<td>It creates a lattice plot to visualize panel or longitudinal data. The observed values are plotted as dots and the fitted values as lines, both against time. The plot is customizable and easy to edit, even if you do not know how to construct a lattice plot from scratch.</td>
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<tr>
<td>Depends</td>
<td>R (&gt;= 4.0)</td>
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<tr>
<td>Imports</td>
<td>ggplot2</td>
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<td>License</td>
<td>GPL (&gt;= 2)</td>
</tr>
<tr>
<td>NeedsCompilation</td>
<td>no</td>
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<td>Repository</td>
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  This is an R package that provides lattice plot for panel data.

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### Description

It creates a lattice plot to visualize panel or longitudinal data. The observed values are plotted as dots and the fitted values as lines, both against time. The plot is customizable and easy to edit, even if you do not know how to construct a lattice plot from scratch.
Details

Package: plattice
Type: Package
Version: 1.0
Date: 2022-10-01
License: GPL-2

Maintainers

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Author(s)

Michail Tsagris <mtsagris@uoc.gr>, Christos Adam <pada4m4@gmail.com>.

plattice

Lattice plot of panel data along with the model fitted values

Description

Lattice plot of panel data along with the model fitted values.

Usage

plattice(x, rows, pcol = "blue", psize = 2, lcol = "red", lsize = 1, legcol = "orange", xlabel = NULL, ylabel = NULL, y_labels = NULL)

Arguments

x

rows
The number of rows the lattice plot will contain.

pcol
The colour of the points (observed response values).

psize
The size of the points (observed response values).

lcol
The colour of the line of the fitted values.

lsize
The size of the line of the fitted values.

legcol
The colour of the background of the title of each sub-graph.

xlabel
The label of the x-axis.

dlabel
The label of the y-axis.

y_labels
A vector with the numbers to appear in the y-axis. If left NULL, 10 equidistant values will appear.
**Value**

A lattice plot with as many diagrams as the number of groups.

**Author(s)**

Christos Adam and Michail Tsagris.

**Examples**

```r
y <- rnorm(120, 3, 1)
yhat <- 3 * y + rnorm(120, 0, 0.4)
id <- rep(c("DENMARK", "FRANCE", "GERMANY", "GREECE", "IRELAND", "ITALY"), 20)
a <- data.frame(country = id, year = rep(2000:2019, each = 6), y = y, yhat = yhat)
plattice(a, rows = 2)
```
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