

# Package ‘plattice’

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**Type** Package

**Title** Lattice Plot for Panel Data

**Version** 1.1

**Date** 2024-12-04

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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.

**Depends** R (>= 4.0)

**Imports** ggplot2

**Suggests** Rfast, Rfast2

**License** GPL (>= 2)

**NeedsCompilation** no

**Repository** CRAN

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plattice-package      *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:   1.1  
Date:      2024-12-04  
License:   GPL-2

### Maintainers

Michail Tsagris <mtsagris@uoc.gr>

### Author(s)

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plattice      *Lattice plot of panel data along with the model fitted values*

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### 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        | A data frame with 4 columns of this specific order. Column 1: the grouping variable. Column 2: the time periods. Column 3: the observed response values. Column 4: the fitted values. |
| 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.  |
| ylabel   | 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**

```
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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