

Package ‘RPregression’

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Type Package

Title A Simple Regression and Plotting Tool

Version 0.1.0

Description Perform a regression analysis, generate a regression table, create a scatter plot, and download the results. It uses 'stargazer' for generating regression tables and 'ggplot2' for creating plots. With just two lines of code, you can perform a regression analysis, visualize the results, and save the output. It is part of my make R easy project where one doesn't need to know how to use various packages in order to get results and makes it easily accessible to beginners. This is a part of my make R easy project. Help from 'ChatGPT' was taken. References were Wickham (2016) <[doi:10.1007/978-3-319-24277-4](https://doi.org/10.1007/978-3-319-24277-4)>.

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Depends R (>= 3.5.0)

Imports stargazer, ggplot2, stats

NeedsCompilation no

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Description

This function allows you to run a regression analysis, generate a regression table, create a scatter plot, and download the results, all without the need for additional packages such as 'stargazer', 'ggplot2', or 'ggthemes'. With just two lines of code, you can perform a regression analysis, visualize the results, and save the output.

Usage

```
RPregression(x, y, table = "text", plot = FALSE, xlab = "", ylab = "",
             title = "", subtitle = "", caption = "", plottheme = "theme_grey()",
             download = FALSE, color_points = "black", color_line = "red",
             ci = TRUE, sd = FALSE)
```

Arguments

x	The independent variable.
y	The dependent variable.
table	The format for the regression table ("text", "html", or "latex").
plot	Logical, whether to generate a plot.
xlab	Label for x-axis in the plot.
ylab	Label for y-axis in the plot.
title	The title for the regression table and plot.
subtitle	Subtitle for the plot (optional).
caption	Caption for the plot (optional).
plottheme	Theme for the plot (default is "theme_grey()").
download	Logical, whether to save the regression table as a text file.
color_points	Color for points in the plot (default is "black").
color_line	Color for the regression line (default is "red").
ci	Logical, whether to include confidence interval in the plot (default is TRUE).
sd	Logical, whether to include standard deviation bars in the plot (default is FALSE).

Value

If plot is TRUE, a plot is generated. Otherwise, a regression table is printed.

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Examples

```
RPregression(mtcars$mpg, mtcars$wt, table = "text", title = "Regression Analysis",  
plot = TRUE, xlab = "mpg", ylab = "wt", plottheme = "theme_grey()", download = FALSE)
```

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