

rempsysc: Convenience functions for psychology

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Software

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Summary

([R Core Team 2022](#))

`{rempsysc}` is an R package of convenience functions to make the analysis-to-publication workflow faster and easier. It affords easily customizable plots (via `{ggplot2}`) and nice APA tables exportable to Word (via `{flectable}`); it makes it easy to run statistical tests, check assumptions, or automatize various tasks. It is a package mostly geared at researchers in the psychological sciences but people from all fields can find it useful.

Introduction

Statement of need

There are many reasons to use R ([R Core Team 2022](#)) for analyzing and reporting data from research studies. R is more compatible with the ideals of open science ([Quintana 2020](#)). In contrast to commercial software: (a) it is free to use; (b) it makes it easy to share a fully comprehensive analysis script; (c) it is transparent as anyone can look at the formulas or algorithms used in a given package; (d) the community can quickly contribute new packages based on current needs; (e) it generates better-looking figures; and (f) it helps reduce copy-paste errors so common in psychology[1].

However, R has a major downside: its steep learning curve due to its programmatic interface, in contrast to perhaps more beginner-friendly point-and-click software. Of course, this flexibility is also a strength, and there are increasing momentum for producing packages that make using R as easy as possible.

The R software thus makes it possible to export the results (in the form of text (e.g., the “report” package from `easystats`) or tables (e.g., the `rempsysc` package) directly into Microsoft Word or Microsoft Excel. It also makes it possible to check s 'there are obvious statistical errors directly in the PDF of your final article (via the `statcheck` package). Note for artists, it is also the software that makes the most beautiful figures to visualize your data and results !

Examples of Features

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References

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- R Core Team. 2022. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. <https://www.R-project.org/>.
- [1] according to some estimates, up to 50% of articles have at least one statistical error (Nuijten et al., 2016)

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