

## R package Citations

Wickham H, Averick M, Bryan J, Chang W, McGowan LD, François R, Golemund G, Hayes A, Henry L, Hester J, Kuhn M, Pedersen TL, Miller E, Bache SM, Müller K, Ooms J, Robinson D, Seidel DP, Spinu V, Takahashi K, Vaughan D, Wilke C, Woo K, Yutani H (2019). "Welcome to the tidyverse." *Journal of Open Source Software*, \*4\*(43), 1686. doi:10.21105/joss.01686 <<https://doi.org/10.21105/joss.01686>>.

Wickham H, Bryan J (2023). *\_readxl: Read Excel Files\_*. R package version 1.4.3, <<https://CRAN.R-project.org/package=readxl>>.

Wickham H (2016). *\_ggplot2: Elegant Graphics for Data Analysis\_*. Springer-Verlag New York. ISBN 978-3-319-24277-4, <<https://ggplot2.tidyverse.org>>.

Chang W, Cheng J, Allaire J, Sievert C, Schloerke B, Xie Y, Allen J, McPherson J, Dipert A, Borges B (2024). *\_shiny: Web Application Framework for R\_*. R package version 1.9.1, <<https://CRAN.R-project.org/package=shiny>>.

Attali D, Sali A (2024). *\_shinycssloaders: Add Loading Animations to a 'shiny' Output While It's Recalculating\_*. R package version 1.1.0, <<https://CRAN.R-project.org/package=shinycssloaders>>.

Xie Y, Cheng J, Tan X (2024). *\_DT: A Wrapper of the JavaScript Library 'DataTables'\_*. R package version 0.33, <<https://CRAN.R-project.org/package=DT>>.

Garnier, Simon, Ross, Noam, Rudis, Robert, Camargo, Pedro A, Sciaini, Marco, Scherer, Cédric (2024). *\_viridis(Lite) - Colorblind-Friendly Color Maps for R\_*. doi:10.5281/zenodo.4679423 <<https://doi.org/10.5281/zenodo.4679423>>, viridis package version 0.6.5, <<https://sjmgarnier.github.io/viridis/>>.

Sievert C (2020). *\_Interactive Web-Based Data Visualization with R, plotly, and shiny\_*. Chapman and Hall/CRC. ISBN 9781138331457, <<https://plotly-r.com>>.

Gohel D (2024). *\_rvg: R Graphics Devices for 'Office' Vector Graphics Output\_*. R package version 0.3.4, <<https://CRAN.R-project.org/package=rvg>>.

Wickham H (2023). *\_stringr: Simple, Consistent Wrappers for Common String Operations\_*. R package version 1.5.1, <<https://CRAN.R-project.org/package=stringr>>.

Gohel D, Moog S (2024). *\_officer: Manipulation of Microsoft Word and PowerPoint Documents\_*. R package version 0.6.6, <<https://CRAN.R-project.org/package=officer>>.

de Mendiburu F (2023). *\_agricolae: Statistical Procedures for Agricultural Research\_*. R package version 1.3-7, <<https://CRAN.R-project.org/package=agricolae>>.

Robinson D, Hayes A, Couch S (2024). *\_broom: Convert Statistical Objects into Tidy Tibbles\_*. R package version 1.0.7, <<https://CRAN.R-project.org/package=broom>>.

Wickham H, Pedersen T, Seidel D (2023). *\_scales: Scale Functions for Visualization\_*. R package version 1.3.0, <<https://CRAN.R-project.org/package=scales>>.

Wickham H, François R, Henry L, Müller K, Vaughan D (2023). *\_dplyr: A Grammar of Data Manipulation\_*. R package version 1.1.4, <<https://CRAN.R-project.org/package=dplyr>>.

Wickham H, Vaughan D, Girlich M (2024). *\_tidyr: Tidy Messy Data\_*. R package version 1.3.1, <<https://CRAN.R-project.org/package=tidyr>>.

Chang W (2021). *\_shinythemes: Themes for Shiny\_*. R package version 1.2.0, <<https://CRAN.R-project.org/package=shinythemes>>.

Graves S, Piepho H, Dorai-Raj LSwhfS (2024). *\_multcompView: Visualizations of Paired Comparisons\_*. R package version 0.1-10, <<https://CRAN.R-project.org/package=multcompView>>.

---

### **Extra Resources used in manual debugging process of R Shiny tool**

Stack Exchange Inc. (n.d.). *Stack Overflow*. <https://stackoverflow.com>

Appsilon. (n.d.). *R Shiny guides and tutorials*. <https://www.appsilon.com/guides/r-shiny>  
Ask ChatGPT

Posit. (n.d.). *Shiny: Web Applications Framework for R*. <https://shiny.posit.co>

Educational Research Techniques. (2023, February). Making bar graphs with Plotly in R [Video]. YouTube. <https://www.youtube.com/watch?v=OVDuKe84Qro>

Data Digest. (2021, April). Advanced Bar Chart in R Tutorial: Grouped, Stacked, Circular (R Graph Gallery) [Video]. YouTube. <https://www.youtube.com/watch?v=s0qBpD4A5l0>

Holtz, Y. (n.d.). *The R Graph Gallery: Inspiration and Help with R Graphics*. <https://www.r-graph-gallery.com>

GitHub, Inc. (n.d.). *GitHub*. <https://github.com>

R-bloggers. (n.d.). *R-bloggers: R news and tutorials*. <https://www.r-bloggers.com>

RDocumentation.org. (n.d.). *RDocumentation: R packages documentation and search*. <https://www.rdocumentation.org>

W3Schools. (n.d.). *W3Schools Online Web Tutorials*. <https://www.w3schools.com>

Posit. (n.d.). *Posit Community Forum*. <https://forum.posit.co>

loading.io. (n.d.). *Loading.io: Loading animations and design assets*. <https://loading.io>