

Session Info

Ivan Jacob Agaloos Pesigan

Session

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sessionInfo()
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#> R version 4.5.2 (2025-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 LTS
#>
#> Matrix products: default
#> BLAS: /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblas-p-r0.3.26.so; LAPACK version 3.12.0
#>
#> locale:
#>  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
#>  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
#>  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
#>  [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
#>  [9] LC_ADDRESS=C             LC_TELEPHONE=C
#> [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
#>
#> time zone: Etc/UTC
#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.23
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.55
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.5  xml2_1.5.1
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.1       RefManageR_1.4.0 ote1_0.2.0
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#> [25] rlang_1.1.7      jsonlite_2.0.0    stringi_1.8.7
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Packages

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unname(installed.packages()[, 1])
```

```
#> [1] "fitDTVARMxID"      "rProject"          "rstudioapi"
#> [4] "vctr"              "abind"             "Amelia"
#> [7] "arm"               "arrow"             "ash"
#> [10] "AsioHeaders"       "askpass"           "assertthat"
#> [13] "backports"         "base64enc"         "betaDelta"
#> [16] "betaMC"            "betaNB"            "betaSandwich"
#> [19] "BH"                "bibtex"            "BiocManager"
#> [22] "BiocVersion"       "bit"               "bit64"
#> [25] "bitops"            "blob"              "bootStateSpace"
#> [28] "brew"              "brio"              "broom"
#> [31] "bslib"             "cachem"            "callr"
#> [34] "car"               "caracas"           "carData"
#> [37] "cellranger"        "cfr"               "checkmate"
#> [40] "cli"               "clipr"             "clock"
#> [43] "clusterGeneration" "coda"              "c0de"
#> [46] "collections"       "colorspace"        "commonmark"
#> [49] "conflicted"        "corpcor"           "covr"
#> [52] "cowplot"           "cpp11"             "crayon"
#> [55] "credentials"       "crosstalk"         "cTMed"
#> [58] "ctsem"             "curl"              "data.table"
#> [61] "DBI"               "dbplyr"            "Deriv"
#> [64] "desc"              "deSolve"           "devtools"
#> [67] "diagram"           "dials"             "DiceDesign"
#> [70] "diffobj"           "digest"            "distributional"
#> [73] "distrib"           "doBy"              "docopt"
#> [76] "downlit"           "dplyr"             "DT"
#> [79] "dtplyr"            "duckdb"            "dynr"
#> [82] "dynUtils"          "ellipse"           "ellipsis"
#> [85] "evaluate"          "expm"              "fans"
#> [88] "farver"            "fastDummies"       "fastmap"
#> [91] "fclust"            "fda"               "fdrtool"
#> [94] "fdr"               "fitDTVARMxID"      "FNN"
#> [97] "fontawesome"       "forcats"           "foreach"
#> [100] "forecast"          "Formula"           "fracdiff"
#> [103] "fs"                "fst"               "fstcore"
#> [106] "furrr"             "future"            "future.apply"
#> [109] "gargle"            "generics"          "gert"
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#> [112] "ggplot2"          "ggrepel"          "gh"
#> [115] "gitcreds"         "glasso"           "glmnet"
#> [118] "globals"          "glue"             "googledrive"
#> [121] "googlesheets4"    "gower"            "GPArotation"
#> [124] "GPfit"            "graphicalVAR"     "gridExtra"
#> [127] "gsubfn"           "gtable"           "gtools"
#> [130] "hardhat"          "haven"            "hdcrcde"
#> [133] "here"             "highr"            "Hmisc"
#> [136] "hms"              "htmlTable"        "htmltools"
#> [139] "htmlwidgets"      "httpgd"           "httpuv"
#> [142] "httr"             "httr2"            "ids"
#> [145] "ifaTools"         "igraph"           "infer"
#> [148] "ini"              "inline"           "ipred"
#> [151] "isoband"          "iterators"        "jomo"
#> [154] "jpeg"             "jquerylib"        "jsonlite"
#> [157] "jsonvalidate"     "kernlab"          "knitr"
#> [160] "ks"               "labeling"         "Lahman"
#> [163] "languageserver"   "later"            "latex2exp"
#> [166] "lava"             "lavaan"           "lazyeval"
#> [169] "lhs"              "lifecycle"        "lintr"
#> [172] "listenv"          "litedown"         "littler"
#> [175] "lme4"             "lmtest"           "locfit"
#> [178] "longMI"           "loo"              "lubridate"
#> [181] "magick"           "magrittr"         "markdown"
#> [184] "MatrixModels"     "matrixStats"      "mclust"
#> [187] "memoise"          "metaSEM"          "metaVAR"
#> [190] "mice"             "microbenchmark"   "mime"
#> [193] "miniUI"           "minqa"            "mitml"
#> [196] "mize"             "mlVAR"            "mnormt"
#> [199] "modeldata"        "modelenv"         "modelr"
#> [202] "MplusAutomation" "multicool"        "mvtnorm"
#> [205] "nloptr"           "numDeriv"         "nycflights13"
#> [208] "OpenMx"           "openssl"          "ordinal"
#> [211] "otel"             "pan"              "pander"
#> [214] "parallelly"       "parsnip"          "patchwork"
#> [217] "pbapply"          "pbivnorm"         "pbkrtest"
#> [220] "pcaPP"            "pdftools"         "pillar"
#> [223] "pkgbuild"         "pkgconfig"        "pkgdown"
#> [226] "pkgload"          "plogr"            "plyr"
#> [229] "png"              "posterior"        "pracma"
#> [232] "praise"           "prettyunits"      "printr"
#> [235] "processx"         "prodlim"          "profvis"
#> [238] "progress"         "progressr"        "promises"
#> [241] "proto"            "ps"               "psych"
#> [244] "purrr"            "qgraph"           "qpdf"

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#> [247] "quadprog"          "quantmod"          "quantreg"
#> [250] "quarto"            "QuickJSR"          "R.cache"
#> [253] "R.methodsS3"       "R.oo"               "R.utils"
#> [256] "R2jags"            "R2WinBUGS"          "R6"
#> [259] "ragg"              "rainbow"            "rappdirs"
#> [262] "rbibutils"         "rcmdcheck"          "RColorBrewer"
#> [265] "Rcpp"              "RcppArmadillo"      "RcppEigen"
#> [268] "RcppGSL"           "RcppParallel"       "RcppTOML"
#> [271] "RCurl"             "Rdpack"             "readr"
#> [274] "readxl"            "recipes"            "RefManageR"
#> [277] "reformulas"        "rematch"            "rematch2"
#> [280] "remotes"           "reprex"             "reshape2"
#> [283] "reticulate"        "rex"                "rhdf5"
#> [286] "rhdf5filters"      "Rhdf5lib"           "rhub"
#> [289] "rjags"             "rlang"              "RMariaDB"
#> [292] "rmarkdown"         "roxygen2"           "rpf"
#> [295] "RPostgres"         "rProject"           "rprojroot"
#> [298] "rsample"           "RSQLite"            "rstan"
#> [301] "rstantools"        "rstudioapi"         "rversions"
#> [304] "rvest"             "Ryacas"             "S7"
#> [307] "sass"              "scales"             "selectr"
#> [310] "semlbci"           "semmccci"           "sessioninfo"
#> [313] "sfd"               "shape"              "shiny"
#> [316] "simStateSpace"     "slider"             "snow"
#> [319] "snowfall"          "sourcetools"        "SparseM"
#> [322] "sparsevctrs"       "SQUAREM"            "StanHeaders"
#> [325] "stringi"           "stringr"            "styler"
#> [328] "symSEM"            "sys"                "systemfonts"
#> [331] "tailor"            "tensorA"            "testthat"
#> [334] "texreg"            "textshaping"        "tibble"
#> [337] "tidymodels"        "tidyr"              "tidyselect"
#> [340] "tidyverse"         "timechange"          "timeDate"
#> [343] "tinytex"           "tseries"            "TTR"
#> [346] "tune"              "tzdb"               "ucminf"
#> [349] "unigd"             "urca"               "urlchecker"
#> [352] "usethis"           "utf8"               "uuid"
#> [355] "V8"                "vctrs"              "viridisLite"
#> [358] "vroom"             "waldo"              "warp"
#> [361] "whisker"           "whoami"             "withr"
#> [364] "workflows"         "workflowsets"       "xfun"
#> [367] "xml2"              "xmlparsedata"       "xopen"
#> [370] "xtable"            "xts"                "yaml"
#> [373] "yardstick"         "zip"                "zoo"
#> [376] "base"              "boot"               "class"
#> [379] "cluster"           "codetools"          "compiler"

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```
#> [382] "datasets"      "foreign"      "graphics"
#> [385] "grDevices"     "grid"         "KernSmooth"
#> [388] "lattice"       "MASS"         "Matrix"
#> [391] "methods"       "mgcv"         "nlme"
#> [394] "nnet"          "parallel"     "rpart"
#> [397] "spatial"       "splines"      "stats"
#> [400] "stats4"        "survival"     "tcltk"
#> [403] "tools"         "utils"
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References

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>