

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

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

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```
#> [382] "cluster"      "codetools"    "compiler"
#> [385] "datasets"     "foreign"      "graphics"
#> [388] "grDevices"    "grid"         "KernSmooth"
#> [391] "lattice"      "MASS"         "Matrix"
#> [394] "methods"      "mgcv"         "nlme"
#> [397] "nnet"         "parallel"     "rpart"
#> [400] "spatial"      "splines"      "stats"
#> [403] "stats4"       "survival"     "tcltk"
#> [406] "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/>