

Session Info

Ivan Jacob Agaloos Pesigan

Session

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sessionInfo()

#> 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-p0.3.26.so;  LAPACK version 3.12
#>
#> 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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uname(installed.packages()[, 1])  
  
#> [1] "cffr"                  "devtools"           "fitDTVARMxID"  
#> [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"          "cffr"               "checkmate"  
#> [43] "cli"                  "clipr"              "clock"  
#> [46] "clusterGeneration"   "coda"               "cOde"  
#> [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] "distro"                "doBy"               "docopt"  
#> [79] "downlit"              "dplyr"              "DT"  
#> [82] "dtplyr"                "duckdb"             "dynr"  
#> [85] "dynUtils"              "ellipse"            "ellipsis"  
#> [88] "evaluate"              "expm"               "fansi"  
#> [91] "farver"                "fastDummies"        "fastmap"  
#> [94] "fclust"                "fda"                "fdrtool"  
#> [97] "fds"                   "fitDTVARMxID"       "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"          "semmcci"         "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/>