

Session Info

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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_1.5.2
#> [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"           "rappdirs"        "rProject"  
#> [7] "rstudioapi"    "testthat"        "tibble"  
#> [10] "tinytex"       "vctrs"          "xml2"  
#> [13] "abind"         "Amelia"         "arm"  
#> [16] "arrow"         "ash"            "AsioHeaders"  
#> [19] "askpass"       "assertthat"     "backports"  
#> [22] "base64enc"    "betaDelta"      "betaMC"  
#> [25] "betaNB"       "betaSandwich"  "BH"  
#> [28] "bibtex"        "BiocManager"    "BiocVersion"  
#> [31] "bit"            "bit64"          "bitops"  
#> [34] "blob"          "bootStateSpace" "brew"  
#> [37] "brio"          "broom"          "bslib"  
#> [40] "cachem"        "callr"          "car"  
#> [43] "caracas"       "carData"        "cellranger"  
#> [46] "cffr"          "checkmate"     "cli"  
#> [49] "clipr"          "clock"          "clusterGeneration"  
#> [52] "coda"           "cOde"          "collections"  
#> [55] "colorspace"    "commonmark"    "conflicted"  
#> [58] "corpcor"        "covr"           "cowplot"  
#> [61] "cpp11"          "crayon"         "credentials"  
#> [64] "crosstalk"     "cTMed"          "ctsem"  
#> [67] "curl"           "data.table"     "DBI"  
#> [70] "dbplyr"         "Deriv"          "desc"  
#> [73] "deSolve"        "devtools"       "diagram"  
#> [76] "dials"          "DiceDesign"    "diffobj"  
#> [79] "digest"         "distributional" "distro"  
#> [82] "doBy"           "docopt"         "downlit"  
#> [85] "dplyr"          "DT"             "dtplyr"  
#> [88] "duckdb"         "dynr"           "dynUtils"  
#> [91] "ellipse"        "ellipsis"       "evaluate"  
#> [94] "expm"           "fansi"          "farver"  
#> [97] "fastDummies"   "fastmap"        "fclust"  
#> [100] "fda"           "fdrtool"        "fds"  
#> [103] "fitDTVARMxID" "FNN"            "fontawesome"  
#> [106] "forcats"       "foreach"        "forecast"  
#> [109] "Formula"       "fracdiff"      "fs"
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#> [112] "fst"                  "fstcore"           "furrr"
#> [115] "future"              "future.apply"      "gargle"
#> [118] "generics"            "gert"               "ggplot2"
#> [121] "ggrepel"              "gh"                 "gitcreds"
#> [124] "glasso"              "glmnet"             "globals"
#> [127] "glue"                "googledrive"       "googlesheets4"
#> [130] "gower"                "GPArotation"       "GPfit"
#> [133] "graphicalVAR"        "gridExtra"          "gsubfn"
#> [136] "gtable"               "gtools"              "hardhat"
#> [139] "haven"                "hdrcde"             "here"
#> [142] "highr"                "Hmisc"              "hms"
#> [145] "htmlTable"            "htmltools"          "htmlwidgets"
#> [148] "httpgd"               "httpuv"             "httr"
#> [151] "httr2"                "ids"                 "ifaTools"
#> [154] "igraph"                "infer"               "ini"
#> [157] "inline"                "ipred"              "isoband"
#> [160] "iterators"            "jomo"                "jpeg"
#> [163] "jquerylib"            "jsonlite"            "jsonvalidate"
#> [166] "kernlab"               "knitr"              "ks"
#> [169] "labeling"              "Lahman"             "languageserver"
#> [172] "later"                 "latex2exp"          "lava"
#> [175] "lavaan"                "lazyeval"            "lhs"
#> [178] "lifecycle"             "lintr"              "listenv"
#> [181] "litedown"              "littler"             "lme4"
#> [184] "lmtest"                "locfit"              "longMI"
#> [187] "loo"                   "lubridate"          "magick"
#> [190] "magrittr"              "markdown"            "MatrixModels"
#> [193] "matrixStats"            "mclust"              "memoise"
#> [196] "metaSEM"                "metaVAR"             "mice"
#> [199] "microbenchmark"        "mime"                 "miniUI"
#> [202] "minqa"                 "mitml"               "mize"
#> [205] "mlVAR"                  "mnormt"              "modeldata"
#> [208] "modelenv"              "modelr"              "MplusAutomation"
#> [211] "multicool"              "mvtnorm"             "nloptr"
#> [214] "numDeriv"              "nycflights13"        "OpenMx"
#> [217] "openssl"                "ordinal"             "otel"
#> [220] "pan"                   "pander"              "parallelly"
#> [223] "parsnip"                "patchwork"            "pbapply"
#> [226] "pbivnorm"              "pbkrtest"            "pcaPP"
#> [229] "pdfTools"              "pillar"              "pkgbuild"
#> [232] "pkgconfig"              "pkgdown"             "pkgload"
#> [235] "plogr"                  "plyr"                 "png"
#> [238] "posterior"              "pracma"              "praise"
#> [241] "prettyunits"            "printr"              "processx"
#> [244] "prodlim"                "profvis"             "progress"

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

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```
#> [382] "zip"           "zoo"          "base"
#> [385] "boot"          "class"         "cluster"
#> [388] "codetools"      "compiler"      "datasets"
#> [391] "foreign"        "graphics"     "grDevices"
#> [394] "grid"           "KernSmooth"   "lattice"
#> [397] "MASS"           "Matrix"       "methods"
#> [400] "mgcv"           "nlme"         "nnet"
#> [403] "parallel"       "rpart"        "spatial"
#> [406] "splines"        "stats"        "stats4"
#> [409] "survival"       "tcltk"        "tools"
#> [412] "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/>