

# Session Info

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## Session

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sessionInfo()

#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-p0.3.20.so; LAPACK version 3.10.3
#>
#> 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
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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.5.1          lubridate_1.9.3  xfun_0.45
#> [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.47
#> [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1      compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9        httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.12       RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4

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## Packages

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

#> [1] "fitCTVARMx"      "metaVAR"          "RcppParallel"     "abind"
#> [5] "arrow"           "ash"              "AsioHeaders"       "askpass"
#> [9] "assertthat"      "backports"        "base64enc"         "betaDelta"
#> [13] "betaMC"          "betaNB"           "betaSandwich"      "BH"
#> [17] "bibtex"          "BiocManager"      "bit"               "bit64"
#> [21] "bitops"          "blob"             "brew"              "brio"

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#> [25] "broom"          "bslib"          "cachem"         "callr"
#> [29] "car"            "caracas"        "carData"        "cellranger"
#> [33] "cfr"           "checkmate"      "cli"            "clipr"
#> [37] "clock"         "coda"           "c0de"           "collections"
#> [41] "colorspace"    "commonmark"     "conflicted"     "corpcor"
#> [45] "covr"          "cowplot"        "cpp11"          "crayon"
#> [49] "credentials"   "crosstalk"      "cTMed"          "ctsem"
#> [53] "curl"          "cyclocomp"      "data.table"     "DBI"
#> [57] "dbplyr"        "Deriv"          "desc"           "deSolve"
#> [61] "devtools"      "diagram"        "dials"          "DiceDesign"
#> [65] "diffobj"       "digest"         "distributional" "distro"
#> [69] "doBy"          "docopt"         "doFuture"       "downlit"
#> [73] "dplyr"         "DT"             "dtplyr"         "duckdb"
#> [77] "dynr"          "dynUtils"       "ellipse"        "ellipsis"
#> [81] "evaluate"      "expm"           "fansI"          "farver"
#> [85] "fastDummies"   "fastmap"        "fclust"         "fda"
#> [89] "fdrtool"       "fds"            "fitDTVARMx"     "FNN"
#> [93] "fontawesome"   "forcats"        "foreach"        "Formula"
#> [97] "fs"            "fst"            "fstcore"        "furry"
#> [101] "future"        "future.apply"   "gargle"         "generics"
#> [105] "gert"          "ggplot2"        "ggrepel"        "gh"
#> [109] "gitcreds"      "glasso"         "glmnet"         "globals"
#> [113] "glue"          "googledrive"    "googlesheets4" "gower"
#> [117] "GPArotation"   "GPfit"          "gridExtra"      "gsubfn"
#> [121] "gtable"        "gtools"         "hardhat"        "haven"
#> [125] "hdcrcde"       "here"           "highr"          "Hmisc"
#> [129] "hms"           "htmlTable"      "htmltools"      "htmlwidgets"

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#> [133]	"httpgd"	"httpuv"	"httr"	"httr2"
#> [137]	"ids"	"ifaTools"	"igraph"	"infer"
#> [141]	"ini"	"inline"	"ipred"	"isoband"
#> [145]	"iterators"	"jomo"	"jpeg"	"jquerylib"
#> [149]	"jsonlite"	"jsonvalidate"	"kernlab"	"knitr"
#> [153]	"ks"	"labeling"	"Lahman"	"languageserver"
#> [157]	"later"	"latex2exp"	"lava"	"lavaan"
#> [161]	"lazyeval"	"lhs"	"lifecycle"	"lintr"
#> [165]	"listenv"	"littler"	"lme4"	"locfit"
#> [169]	"longMI"	"loo"	"lubridate"	"magick"
#> [173]	"magrittr"	"markdown"	"MatrixModels"	"matrixStats"
#> [177]	"mclust"	"memoise"	"metaSEM"	"metaVAR"
#> [181]	"mice"	"microbenchmark"	"mime"	"miniUI"
#> [185]	"minqa"	"mitml"	"mize"	"mnormt"
#> [189]	"modeldata"	"modelenv"	"modelr"	"MplusAutomation"
#> [193]	"multicool"	"munsell"	"mvtnorm"	"nloptr"
#> [197]	"numDeriv"	"nycflights13"	"OpenMx"	"openssl"
#> [201]	"ordinal"	"pan"	"pander"	"parallelly"
#> [205]	"parsnip"	"patchwork"	"pbapply"	"pbivnorm"
#> [209]	"pbkrtest"	"pcaPP"	"pdftools"	"pillar"
#> [213]	"pkgbuild"	"pkgconfig"	"pkgdown"	"pkgload"
#> [217]	"plogr"	"plyr"	"png"	"posterior"
#> [221]	"pracma"	"praise"	"prettyunits"	"printr"
#> [225]	"processx"	"prodlim"	"profvis"	"progress"
#> [229]	"progressr"	"promises"	"proto"	"ps"
#> [233]	"psych"	"purrr"	"qgraph"	"qpdf"
#> [237]	"quadprog"	"quantreg"	"quarto"	"QuickJSR"

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#> [241] "R.cache"          "R.methodsS3"      "R.oo"             "R.utils"
#> [245] "R6"               "ragg"             "rainbow"          "rappdirs"
#> [249] "rbibutils"        "rcmdcheck"        "RColorBrewer"     "Rcpp"
#> [253] "RcppArmadillo"    "RcppEigen"        "RcppGSL"          "RcppParallel"
#> [257] "RcppTOML"         "RCurl"            "Rdpack"           "readr"
#> [261] "readxl"           "recipes"          "RefManageR"       "rematch"
#> [265] "rematch2"         "remotes"          "reprex"           "reshape2"
#> [269] "reticulate"       "rex"              "rhub"             "rlang"
#> [273] "RMariaDB"         "rmarkdown"        "roxygen2"         "rpf"
#> [277] "RPostgres"        "rProject"          "rprojroot"        "rsample"
#> [281] "RSQLite"          "rstan"            "rstantools"       "rstudioapi"
#> [285] "rversions"        "rvest"            "Ryacas"           "sass"
#> [289] "scales"           "selectr"          "semlbci"          "semmcci"
#> [293] "sessioninfo"      "shape"            "shiny"            "simStateSpace"
#> [297] "slider"           "snow"             "snowfall"         "sourcetools"
#> [301] "SparseM"          "SQUAREM"          "StanHeaders"      "statmod"
#> [305] "stringi"          "stringr"          "styler"           "symSEM"
#> [309] "sys"              "systemfonts"      "tensorA"          "testthat"
#> [313] "texreg"           "textshaping"      "tibble"           "tidymodels"
#> [317] "tidyr"            "tidyselect"       "tidyverse"        "timechange"
#> [321] "timeDate"         "tinytex"          "tune"             "tzdb"
#> [325] "ucminf"           "unigd"            "urlchecker"       "usethis"
#> [329] "utf8"             "uuid"            "V8"               "vctrs"
#> [333] "viridis"          "viridisLite"      "vroom"            "waldo"
#> [337] "warp"             "whisker"          "whoami"           "withr"
#> [341] "workflows"        "workflowsets"     "xfun"             "xml2"
#> [345] "xmlparsedata"     "xopen"            "xtable"           "yaml"

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#> [349] "yardstick"      "zip"      "base"      "boot"
#> [353] "class"         "cluster"  "codetools" "compiler"
#> [357] "datasets"      "foreign"  "graphics"  "grDevices"
#> [361] "grid"          "KernSmooth" "lattice"   "MASS"
#> [365] "Matrix"        "methods"  "mgcv"      "nlme"
#> [369] "nnet"          "parallel" "rpart"     "spatial"
#> [373] "splines"       "stats"    "stats4"    "survival"
#> [377] "tcltk"         "tools"    "utils"

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## References

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>