

# Session Info

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## Session

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sessionInfo()

#> R version 4.5.0 (2025-04-11)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.2 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/libopenblasp-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
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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.18
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.52
#> [5] magrittr_2.0.3   glue_1.8.0        stringr_1.5.1    knitr_1.50
#> [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.8
#> [13] cli_3.6.5.9000  bibtex_0.5.1      compiler_4.5.0   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9        httr_1.4.7       tools_4.5.0
#> [21] evaluate_1.0.3   Rcpp_1.0.14       RefManageR_1.4.0 rlang_1.1.6
#> [25] jsonlite_2.0.0   stringi_1.8.7

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## Packages

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

#> [1] "metaVAR"      "abind"          "Amelia"
#> [4] "arm"          "arrow"          "ash"
#> [7] "askpass"      "assertthat"     "backports"
#> [10] "base64enc"    "betaDelta"      "betaMC"
#> [13] "betaNB"       "betaSandwich"   "BH"
#> [16] "bibtex"       "BiocManager"    "bit"

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#> [19] "bit64"          "bitops"         "blob"
#> [22] "bootStateSpace" "brew"           "brio"
#> [25] "broom"          "bslib"          "cachem"
#> [28] "callr"          "car"            "caracas"
#> [31] "carData"        "cellranger"     "cfr"
#> [34] "checkmate"      "cli"            "clipr"
#> [37] "clock"          "clusterGeneration" "coda"
#> [40] "c0de"           "collections"    "colorspace"
#> [43] "commonmark"     "conflicted"     "corpcor"
#> [46] "covr"           "cowplot"        "cpp11"
#> [49] "crayon"         "credentials"     "crosstalk"
#> [52] "cTMed"          "ctsem"          "curl"
#> [55] "data.table"     "DBI"            "dbplyr"
#> [58] "Deriv"          "desc"           "deSolve"
#> [61] "devtools"       "diagram"        "dials"
#> [64] "DiceDesign"     "diffobj"        "digest"
#> [67] "distributional" "distro"         "doBy"
#> [70] "docopt"         "doFuture"       "downlit"
#> [73] "dplyr"          "DT"             "dtplyr"
#> [76] "duckdb"         "dynr"           "dynUtils"
#> [79] "ellipse"        "ellipsis"       "evaluate"
#> [82] "expm"           "fansib"         "farver"
#> [85] "fastDummies"    "fastmap"        "fclust"
#> [88] "fda"            "fdrtool"        "fds"
#> [91] "fitCTVARMx"     "fitDTVARMx"     "FNN"
#> [94] "fontawesome"    "forcats"        "foreach"
#> [97] "Formula"        "fs"             "fst"

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#> [100] "fstcore"          "furrr"           "future"
#> [103] "future.apply"     "gargle"          "generics"
#> [106] "gert"            "ggplot2"         "ggrepel"
#> [109] "gh"              "gitcreds"        "glasso"
#> [112] "glmnet"          "globals"         "glue"
#> [115] "googledrive"     "googlesheets4"   "gower"
#> [118] "GPArotation"     "GPfit"           "graphicalVAR"
#> [121] "gridExtra"       "gsubfn"          "gtable"
#> [124] "gtools"          "hardhat"         "haven"
#> [127] "hdcrcde"         "here"            "highr"
#> [130] "Hmisc"           "hms"             "htmlTable"
#> [133] "htmltools"       "htmlwidgets"     "httpuv"
#> [136] "httr"            "httr2"           "ids"
#> [139] "ifaTools"        "igraph"          "infer"
#> [142] "ini"             "inline"          "ipred"
#> [145] "isoband"         "iterators"       "jomo"
#> [148] "jpeg"            "jquerylib"       "jsonlite"
#> [151] "jsonvalidate"    "kernlab"         "knitr"
#> [154] "ks"              "labeling"        "Lahman"
#> [157] "languageserver"  "later"           "latex2exp"
#> [160] "lava"           "lavaan"          "lazyeval"
#> [163] "lhs"            "lifecycle"       "lintr"
#> [166] "listenv"         "litedown"        "littler"
#> [169] "lme4"           "locfit"          "longMI"
#> [172] "loo"            "lubridate"       "magick"
#> [175] "magrittr"        "markdown"        "MatrixModels"
#> [178] "matrixStats"    "mclust"          "memoise"

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#> [181] "metaSEM"          "metaVAR"          "mice"
#> [184] "microbenchmark"   "mime"              "miniUI"
#> [187] "minqa"            "mitml"             "mize"
#> [190] "mlVAR"            "mnormt"            "modeldata"
#> [193] "modelenv"         "modelr"            "MplusAutomation"
#> [196] "multicool"        "munsell"           "mvtnorm"
#> [199] "nloptr"           "numDeriv"          "nycflights13"
#> [202] "OpenMx"           "openssl"           "ordinal"
#> [205] "pan"              "pander"            "parallelly"
#> [208] "parsnip"          "patchwork"         "pbapply"
#> [211] "pbivnorm"         "pbkrtest"          "pcaPP"
#> [214] "pdftools"         "pillar"            "pkgbuild"
#> [217] "pkgconfig"        "pkgdown"           "pkgload"
#> [220] "plogr"            "plyr"              "png"
#> [223] "posterior"        "pracma"            "praise"
#> [226] "prettyunits"      "printr"            "processx"
#> [229] "prodlim"          "profvis"           "progress"
#> [232] "progressr"        "promises"          "proto"
#> [235] "ps"               "psych"             "purrr"
#> [238] "qgraph"           "qpdf"              "quadprog"
#> [241] "quantreg"         "quarto"            "QuickJSR"
#> [244] "R.cache"          "R.methodsS3"       "R.oo"
#> [247] "R.utils"          "R6"                "ragg"
#> [250] "rainbow"          "rappdirs"          "rbibutils"
#> [253] "rcmdcheck"        "RColorBrewer"      "Rcpp"
#> [256] "RcppArmadillo"    "RcppEigen"         "RcppGSL"
#> [259] "RcppParallel"     "RcppTOML"          "RCurl"

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#> [262]	"Rdpack"	"readr"	"readxl"
#> [265]	"recipes"	"RefManageR"	"reformulas"
#> [268]	"rematch"	"rematch2"	"remotes"
#> [271]	"reprex"	"reshape2"	"reticulate"
#> [274]	"rex"	"rhub"	"rjags"
#> [277]	"rlang"	"RMariaDB"	"rmarkdown"
#> [280]	"roxygen2"	"rpf"	"RPostgres"
#> [283]	"rProject"	"rprojroot"	"rsample"
#> [286]	"RSQLite"	"rstan"	"rstantools"
#> [289]	"rstudioapi"	"rversions"	"rvest"
#> [292]	"Ryacas"	"sass"	"scales"
#> [295]	"selectr"	"semlbci"	"semmcci"
#> [298]	"sessioninfo"	"sfd"	"shape"
#> [301]	"shiny"	"simStateSpace"	"slider"
#> [304]	"snow"	"snowfall"	"sourcetools"
#> [307]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [310]	"StanHeaders"	"statmod"	"stringi"
#> [313]	"stringr"	"styler"	"symSEM"
#> [316]	"sys"	"systemfonts"	"tensorA"
#> [319]	"testthat"	"texreg"	"textshaping"
#> [322]	"tibble"	"tidymodels"	"tidyr"
#> [325]	"tidyselect"	"tidyverse"	"timechange"
#> [328]	"timeDate"	"tinytex"	"tune"
#> [331]	"tzdb"	"ucminf"	"urlchecker"
#> [334]	"usethis"	"utf8"	"uuid"
#> [337]	"V8"	"vctrs"	"viridis"
#> [340]	"viridisLite"	"vroom"	"waldo"

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#> [343] "warp"           "whisker"        "whoami"
#> [346] "withr"          "workflows"      "workflowsets"
#> [349] "xfun"           "xml2"           "xmlparsedata"
#> [352] "xopen"          "xtable"         "yaml"
#> [355] "yardstick"      "zip"            "base"
#> [358] "boot"           "class"          "cluster"
#> [361] "codetools"      "compiler"       "datasets"
#> [364] "foreign"        "graphics"       "grDevices"
#> [367] "grid"           "KernSmooth"    "lattice"
#> [370] "MASS"           "Matrix"         "methods"
#> [373] "mgcv"           "nlme"           "nnet"
#> [376] "parallel"       "rpart"          "spatial"
#> [379] "splines"        "stats"          "stats4"
#> [382] "survival"       "tcltk"          "tools"
#> [385] "utils"

```

## 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/>