

# 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_1.5.1
#> [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] "fitDTVARMxID"      "rProject"          "rstudioapi"  
#> [4] "vctrs"             "abind"            "Amelia"  
#> [7] "arm"               "arrow"            "ash"  
#> [10] "AsioHeaders"     "askpass"          "assertthat"  
#> [13] "backports"        "base64enc"       "betaDelta"  
#> [16] "betaMC"           "betaNB"          "betaSandwich"  
#> [19] "BH"                "bibtex"          "BiocManager"  
#> [22] "BiocVersion"     "bit"              "bit64"  
#> [25] "bitops"           "blob"             "bootStateSpace"  
#> [28] "brew"              "brio"             "broom"  
#> [31] "bslib"             "cachem"          "callr"  
#> [34] "car"               "caracas"         "carData"  
#> [37] "cellranger"       "cffr"             "checkmate"  
#> [40] "cli"               "clipr"            "clock"  
#> [43] "clusterGeneration" "coda"             "cOde"  
#> [46] "collections"      "colorspace"       "commonmark"  
#> [49] "conflicted"       "corpcor"          "covr"  
#> [52] "cowplot"           "cpp11"            "crayon"  
#> [55] "credentials"      "crosstalk"        "cTMed"  
#> [58] "ctsem"             "curl"             "data.table"  
#> [61] "DBI"                "dbplyr"           "Deriv"  
#> [64] "desc"              "deSolve"          "devtools"  
#> [67] "diagram"           "dials"            "DiceDesign"  
#> [70] "diffobj"          "digest"           "distributional"  
#> [73] "distro"             "doBy"             "docopt"  
#> [76] "downlit"           "dplyr"            "DT"  
#> [79] "dtplyr"             "duckdb"           "dynr"  
#> [82] "dynUtils"          "ellipse"          "ellipsis"  
#> [85] "evaluate"          "expm"             "fansi"  
#> [88] "farver"            "fastDummies"     "fastmap"  
#> [91] "fclust"             "fda"              "fdrtool"  
#> [94] "fds"                "fitDTVARMxID"    "FNN"  
#> [97] "fontawesome"       "forcats"          "foreach"  
#> [100] "forecast"         "Formula"          "fracdiff"  
#> [103] "fs"                 "fst"              "fstcore"  
#> [106] "furrr"            "future"           "future.apply"  
#> [109] "gargle"           "generics"        "gert"
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#> [112] "ggplot2"           "ggrepel"          "gh"
#> [115] "gitcreds"          "glasso"           "glmnet"
#> [118] "globals"            "glue"             "googledrive"
#> [121] "googlesheets4"      "gower"            "GPArotation"
#> [124] "GPfit"              "graphicalVAR"     "gridExtra"
#> [127] "gsubfn"             "gtable"           "gtools"
#> [130] "hardhat"            "haven"            "hdrcde"
#> [133] "here"               "highr"            "Hmisc"
#> [136] "hms"                "htmlTable"         "htmltools"
#> [139] "htmlwidgets"         "httpgd"           "httpuv"
#> [142] "httr"               "httr2"            "ids"
#> [145] "ifaTools"           "igraph"           "infer"
#> [148] "ini"                "inline"            "ipred"
#> [151] "isoband"            "iterators"        "jomo"
#> [154] "jpeg"               "jquerylib"        "jsonlite"
#> [157] "jsonvalidate"       "kernlab"          "knitr"
#> [160] "ks"                 "labeling"         "Lahman"
#> [163] "languageserver"     "later"            "latex2exp"
#> [166] "lava"               "lavaan"           "lazyeval"
#> [169] "lhs"                "lifecycle"        "lintr"
#> [172] "listenv"            "litedown"         "littler"
#> [175] "lme4"               "lmtest"           "locfit"
#> [178] "longMI"             "loo"              "lubridate"
#> [181] "magick"             "magrittr"         "markdown"
#> [184] "MatrixModels"       "matrixStats"      "mclust"
#> [187] "memoise"            "metaSEM"          "metaVAR"
#> [190] "mice"               "microbenchmark"   "mime"
#> [193] "miniUI"             "minqa"            "mitml"
#> [196] "mize"               "mlVAR"            "mnormt"
#> [199] "modeldata"          "modelenv"         "modelr"
#> [202] "MplusAutomation"    "multicool"        "mvtnorm"
#> [205] "nloptr"             "numDeriv"         "nycflights13"
#> [208] "OpenMx"             "openssl"          "ordinal"
#> [211] "otel"               "pan"              "pander"
#> [214] "parallelly"         "parsnip"          "patchwork"
#> [217] "pbapply"            "pbivnorm"         "pbkrtest"
#> [220] "pcaPP"              "pdftools"         "pillar"
#> [223] "pkgbuild"           "pkgconfig"        "pkgdown"
#> [226] "pkgload"            "plogr"            "plyr"
#> [229] "png"                "posterior"        "pracma"
#> [232] "praise"             "prettyunits"      "printr"
#> [235] "processx"           "prodlim"          "profvis"
#> [238] "progress"           "progressr"        "promises"
#> [241] "proto"              "ps"               "psych"
#> [244] "purrr"              "qgraph"           "qpdf"

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

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

## 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/>