

# 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_0.56
#> [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] "fitDTVARMxID"          "abind"           "Amelia"  
#> [4] "arm"                  "arrow"            "ash"  
#> [7] "AsioHeaders"         "askpass"         "assertthat"  
#> [10] "backports"          "base64enc"       "betaDelta"  
#> [13] "betaMC"             "betaNB"          "betaSandwich"  
#> [16] "BH"                  "bibtex"          "BiocManager"  
#> [19] "BiocVersion"        "bit"              "bit64"  
#> [22] "bitops"              "blob"             "bootStateSpace"  
#> [25] "brew"                "brio"             "broom"  
#> [28] "bslib"               "cachem"          "callr"  
#> [31] "car"                 "caracas"         "carData"  
#> [34] "cellranger"         "cffr"            "checkmate"  
#> [37] "cli"                 "clipr"            "clock"  
#> [40] "clusterGeneration"  "coda"             "c0de"  
#> [43] "collections"        "colorspace"      "commonmark"  
#> [46] "conflicted"         "corpcor"         "covr"  
#> [49] "cowplot"             "cpp11"            "crayon"  
#> [52] "credentials"        "crosstalk"       "cTMed"  
#> [55] "ctsem"               "curl"             "data.table"  
#> [58] "DBI"                 "dbplyr"          "Deriv"  
#> [61] "desc"                "deSolve"         "devtools"  
#> [64] "diagram"             "dials"            "DiceDesign"  
#> [67] "diffobj"             "digest"          "distributional"  
#> [70] "distro"              "doBy"             "docopt"  
#> [73] "downlit"             "dplyr"            "DT"  
#> [76] "dtplyr"              "duckdb"          "dynr"  
#> [79] "dynUtils"            "ellipse"         "ellipsis"  
#> [82] "evaluate"            "expm"             "fansi"  
#> [85] "farver"              "fastDummies"     "fastmap"  
#> [88] "fclust"              "fda"              "fdrttool"  
#> [91] "fds"                  "fitDTVARMxID"    "FNN"  
#> [94] "fontawesome"        "forcats"         "foreach"  
#> [97] "forecast"            "Formula"         "fracdiff"  
#> [100] "fs"                  "fst"              "fstcore"  
#> [103] "furrr"              "future"          "future.apply"  
#> [106] "gargle"             "generics"        "gert"  
#> [109] "ggplot2"            "ggrepel"         "gh"
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#> [112] "gitcreds"          "glasso"           "glmnet"
#> [115] "globals"           "glue"             "googledrive"
#> [118] "googlesheets4"     "gower"            "GPArotation"
#> [121] "GPfit"              "graphicalVAR"    "gridExtra"
#> [124] "gsubfn"             "gtable"           "gtools"
#> [127] "hardhat"            "haven"            "hdrcde"
#> [130] "here"                "highr"            "Hmisc"
#> [133] "hms"                 "htmlTable"        "htmltools"
#> [136] "htmlwidgets"         "httpgd"           "httpuv"
#> [139] "httr"                 "httr2"            "ids"
#> [142] "ifaTools"            "igraph"           "infer"
#> [145] "ini"                  "inline"            "ipred"
#> [148] "isoband"             "iterators"        "jomo"
#> [151] "jpeg"                 "jquerylib"        "jsonlite"
#> [154] "jsonvalidate"        "kernlab"          "knitr"
#> [157] "ks"                   "labeling"         "Lahman"
#> [160] "languageserver"      "later"            "latex2exp"
#> [163] "lava"                 "lavaan"           "lazyeval"
#> [166] "lhs"                  "lifecycle"        "lintr"
#> [169] "listenv"              "litedown"         "littler"
#> [172] "lme4"                 "lmtest"           "locfit"
#> [175] "longMI"               "loo"               "lubridate"
#> [178] "magick"               "magrittr"         "markdown"
#> [181] "MatrixModels"         "matrixStats"      "mclust"
#> [184] "memoise"              "metaSEM"          "metaVAR"
#> [187] "mice"                 "microbenchmark"   "mime"
#> [190] "miniUI"               "minqa"            "mitml"
#> [193] "mize"                 "mlVAR"            "mnormt"
#> [196] "modeldata"            "modelenv"         "modelr"
#> [199] "MplusAutomation"      "multicool"        "mvtnorm"
#> [202] "nloptr"               "numDeriv"         "nycflights13"
#> [205] "OpenMx"               "openssl"          "ordinal"
#> [208] "otel"                 "pan"               "pander"
#> [211] "parallelly"           "parsnip"          "patchwork"
#> [214] "pbapply"              "pbivnorm"         "pbkrtest"
#> [217] "pcaPP"                "pdftools"         "pillar"
#> [220] "pkgbuild"              "pkgconfig"        "pkgdown"
#> [223] "pkgload"               "plogr"             "plyr"
#> [226] "png"                  "posterior"        "pracma"
#> [229] "praise"                "prettyunits"      "printr"
#> [232] "processx"              "prodlim"          "profvis"
#> [235] "progress"              "progressr"        "promises"
#> [238] "proto"                 "ps"                "psych"
#> [241] "purrr"                 "qgraph"           "qpdf"
#> [244] "quadprog"              "quantmod"         "quantreg"

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

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#> [382] "grDevices"          "grid"           "KernSmooth"  
#> [385] "lattice"            "MASS"           "Matrix"  
#> [388] "methods"            "mgcv"          "nlme"  
#> [391] "nnet"                "parallel"       "rpart"  
#> [394] "spatial"             "splines"        "stats"  
#> [397] "stats4"              "survival"       "tcltk"  
#> [400] "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/>