

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

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

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