

# Session Info

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## Session

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sessionInfo()

#> R version 4.5.1 (2025-06-13)
#> 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/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_0.0.21
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.53
#> [5] magrittr_2.0.4   glue_1.8.0         stringr_1.5.2    knitr_1.50
#> [9] timechange_0.3.0 generics_0.1.4     lifecycle_1.0.4  xml2_1.4.0
#> [13] cli_3.6.5.9000   bibtex_0.5.1       compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9         httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   Rcpp_1.1.0         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] "cTMed"          "rProject"        "abind"
#> [4] "Amelia"         "arm"             "arrow"
#> [7] "ash"            "askpass"         "assertthat"
#> [10] "backports"      "base64enc"       "betaDelta"
#> [13] "betaMC"         "betaNB"          "betaSandwich"
#> [16] "BH"             "bibtex"          "BiocManager"

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

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

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#> [181] "metaVAR"          "mice"              "microbenchmark"
#> [184] "mime"             "miniUI"            "minqa"
#> [187] "mitml"            "mize"              "mlVAR"
#> [190] "mnormt"           "modeldata"         "modelenv"
#> [193] "modelr"           "MplusAutomation"  "multicool"
#> [196] "mvtnorm"          "nloptr"            "numDeriv"
#> [199] "nycflights13"     "OpenMx"            "openssl"
#> [202] "ordinal"          "pan"               "pander"
#> [205] "parallelly"       "parsnip"           "patchwork"
#> [208] "pbapply"          "pbivnorm"          "pbkrtest"
#> [211] "pcaPP"            "pdftools"          "pillar"
#> [214] "pkgbuild"         "pkgconfig"         "pkgdown"
#> [217] "pkgload"          "plogr"             "plyr"
#> [220] "png"              "posterior"         "pracma"
#> [223] "praise"           "prettyunits"       "printr"
#> [226] "processx"         "prodlim"           "profvis"
#> [229] "progress"         "progressr"         "promises"
#> [232] "proto"            "ps"                "psych"
#> [235] "purrr"            "qgraph"            "qpdf"
#> [238] "quadprog"         "quantreg"          "quarto"
#> [241] "QuickJSR"         "R.cache"           "R.methodsS3"
#> [244] "R.oo"             "R.utils"           "R2jags"
#> [247] "R2WinBUGS"        "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"	"S7"	"sass"
#> [295]	"scales"	"selectr"	"semlbci"
#> [298]	"semmcci"	"sessioninfo"	"sfd"
#> [301]	"shape"	"shiny"	"simStateSpace"
#> [304]	"slider"	"snow"	"snowfall"
#> [307]	"sourcetools"	"SparseM"	"sparsevctrs"
#> [310]	"SQUAREM"	"StanHeaders"	"stringi"
#> [313]	"stringr"	"styler"	"symSEM"
#> [316]	"sys"	"systemfonts"	"tailor"
#> [319]	"tensorA"	"testthat"	"texreg"
#> [322]	"textshaping"	"tibble"	"tidymodels"
#> [325]	"tidyr"	"tidyselect"	"tidyverse"
#> [328]	"timechange"	"timeDate"	"tinytex"
#> [331]	"tune"	"tzdb"	"ucminf"
#> [334]	"urlchecker"	"usethis"	"utf8"
#> [337]	"uuid"	"V8"	"vctrs"
#> [340]	"viridis"	"viridisLite"	"vroom"

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