

# Session Info

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## Session

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sessionInfo()

#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-p0.3.20.so; LAPACK version 3.10.3
#>
#> 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0  R6_2.5.1          lubridate_1.9.3  xfun_0.46
#> [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.48
#> [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000  bibtex_0.5.1      compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9        httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0 Rcpp_1.0.13       RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4

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## Packages

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

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

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#> [19] "bit"           "bit64"         "bitops"
#> [22] "blob"          "brew"          "brio"
#> [25] "broom"         "bslib"         "cachem"
#> [28] "callr"         "car"           "caracas"
#> [31] "carData"       "cellranger"    "cfrfr"
#> [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] "cyclocomp"     "data.table"    "DBI"
#> [58] "dbplyr"        "Deriv"         "desc"
#> [61] "deSolve"       "devtools"      "diagram"
#> [64] "dials"         "DiceDesign"    "diffobj"
#> [67] "digest"        "distributional" "distro"
#> [70] "doBy"          "docopt"        "doFuture"
#> [73] "downlit"       "dplyr"         "DT"
#> [76] "dtplyr"        "duckdb"        "dynr"
#> [79] "dynUtils"      "ellipse"       "ellipsis"
#> [82] "evaluate"      "expm"          "fansib"
#> [85] "farver"        "fastDummies"   "fastmap"
#> [88] "fclust"        "fda"           "fdrtool"
#> [91] "fds"           "fitCTVARMx"    "fitDTVARMx"
#> [94] "FNN"           "fontawesome"   "forcats"
#> [97] "foreach"       "Formula"       "fs"

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

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

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

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

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## 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/>