

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.4.3 (2025-02-28)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.1 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-p-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
#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.18
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1        lubridate_1.9.4  xfun_0.52
#>  [5] magrittr_2.0.3   glue_1.8.0      stringr_1.5.1    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.8
#> [13] cli_3.6.4.9000   bibtex_0.5.1     compiler_4.4.3   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9      httr_1.4.7       tools_4.4.3
#> [21] evaluate_1.0.3   Rcpp_1.0.14      RefManageR_1.4.0 rlang_1.1.5
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#> [25] jsonlite_2.0.0   stringi_1.8.7
```

## Packages

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unnname(installed.packages()[, 1])
```

```
#> [1] "simStateSpace"      "abind"           "Amelia"
#> [4] "arm"                "arrow"           "ash"
#> [7] "AsioHeaders"        "askpass"         "assertthat"
#> [10] "backports"          "base64enc"       "betaDelta"
#> [13] "betaMC"             "betaNB"          "betaSandwich"
#> [16] "BH"                 "bibtex"          "BiocManager"
#> [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"          "doFuture"
#> [73] "downlit"            "dplyr"           "DT"
#> [76] "dtplyr"             "duckdb"          "dynr"
#> [79] "dynUtils"           "ellipse"         "ellipsis"
#> [82] "evaluate"           "expm"            "fansi"
#> [85] "farver"             "fastDummies"     "fastmap"
#> [88] "fclust"             "fda"             "fdrtool"
#> [91] "fds"                "fitCTVARMx"      "fitDTVARMx"
#> [94] "FNN"                "fontawesome"     "forcats"
#> [97] "foreach"           "Formula"         "fs"
#> [100] "fst"               "fstcore"         "furrr"
#> [103] "future"            "future.apply"    "gargle"
#> [106] "generics"          "gert"            "ggplot2"
#> [109] "ggrepel"           "gh"              "gitcreds"
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#> [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] "litedown"         "littler"          "lme4"
#> [172] "locfit"           "longMI"           "loo"
#> [175] "lubridate"        "magick"           "magrittr"
#> [178] "markdown"         "MatrixModels"     "matrixStats"
#> [181] "mclust"           "memoise"          "metaSEM"
#> [184] "metaVAR"          "mice"             "microbenchmark"
#> [187] "mime"             "miniUI"           "minqa"
#> [190] "mitml"            "mize"             "mlVAR"
#> [193] "mnormt"           "modeldata"        "modelenv"
#> [196] "modelr"           "MplusAutomation" "multicool"
#> [199] "munsell"          "mvtnorm"          "nloptr"
#> [202] "numDeriv"         "nycflights13"     "OpenMx"
#> [205] "openssl"          "ordinal"          "pan"
#> [208] "pander"           "parallelly"       "parsnip"
#> [211] "patchwork"        "pbapply"          "pbivnorm"
#> [214] "pbkrtest"         "pcaPP"            "pdftools"
#> [217] "pillar"           "pkgbuild"         "pkgconfig"
#> [220] "pkgdown"          "pkgload"          "plogr"
#> [223] "plyr"             "png"              "posterior"
#> [226] "pracma"           "praise"           "prettyunits"
#> [229] "printr"           "processx"         "prodlm"
#> [232] "profvis"          "progress"         "progressr"
#> [235] "promises"         "proto"            "ps"
#> [238] "psych"            "purrr"            "qgraph"
#> [241] "qpdf"             "quadprog"         "quantreg"
#> [244] "quarto"           "QuickJSR"         "R.cache"

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

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```
#> [382] "splines"          "stats"            "stats4"  
#> [385] "survival"         "tcltk"            "tools"  
#> [388] "utils"
```

## References

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>