

# 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

```
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] "cffi"               "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/>