

# Session Info

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## Session

```
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/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_0.0.21
#>
#> 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
```

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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] "askpass"            "assertthat"         "backports"
#> [10] "base64enc"          "betaDelta"          "betaMC"
#> [13] "betaNB"             "betaSandwich"       "BH"
#> [16] "bibtex"             "BiocManager"        "bit"
#> [19] "bit64"              "bitops"              "blob"
#> [22] "bootStateSpace"     "brew"                "brio"
#> [25] "broom"              "bslib"               "cachem"
#> [28] "callr"              "car"                 "caracas"
#> [31] "carData"            "cellranger"         "cfr"
#> [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] "data.table"         "DBI"                 "dbplyr"
#> [58] "Deriv"              "desc"                "deSolve"
#> [61] "devtools"           "diagram"             "dials"
#> [64] "DiceDesign"         "diffobj"             "digest"
#> [67] "distributional"     "distrib"             "doBy"
#> [70] "docopt"             "downlit"             "dplyr"
#> [73] "DT"                 "dtplyr"              "duckdb"
#> [76] "dynr"               "dynUtils"            "ellipse"
#> [79] "ellipses"           "evaluate"            "expm"
#> [82] "fansi"              "farver"              "fastDummies"
#> [85] "fastmap"            "fclust"              "fda"
#> [88] "fdrtool"            "fds"                 "fitDTVARm"
#> [91] "FNN"                "fontawesome"         "forcats"
#> [94] "foreach"            "Formula"             "fs"
#> [97] "fst"                "fstcore"             "frr"
#> [100] "future"             "future.apply"        "gargle"
#> [103] "generics"           "gert"                "ggplot2"
#> [106] "ggrepel"            "gh"                  "gitcreds"
#> [109] "glasso"             "glmnet"              "globals"
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#> [112] "glue" "googledrive" "googlesheets4"
#> [115] "gower" "GPArotation" "GPfit"
#> [118] "graphicalVAR" "gridExtra" "gsubfn"
#> [121] "gtable" "gtools" "hardhat"
#> [124] "haven" "hdcrcde" "here"
#> [127] "highr" "Hmisc" "hms"
#> [130] "htmlTable" "htmltools" "htmlwidgets"
#> [133] "httpuv" "httr" "httr2"
#> [136] "ids" "ifaTools" "igraph"
#> [139] "infer" "ini" "inline"
#> [142] "ipred" "isoband" "iterators"
#> [145] "jomo" "jpeg" "jquerylib"
#> [148] "jsonlite" "jsonvalidate" "kernlab"
#> [151] "knitr" "ks" "labeling"
#> [154] "Lahman" "languageserver" "later"
#> [157] "latex2exp" "lava" "lavaan"
#> [160] "lazyeval" "lhs" "lifecycle"
#> [163] "lintr" "listenv" "litedown"
#> [166] "littler" "lme4" "locfit"
#> [169] "longMI" "loo" "lubridate"
#> [172] "magick" "magrittr" "markdown"
#> [175] "MatrixModels" "matrixStats" "mclust"
#> [178] "memoise" "metaSEM" "metaVAR"
#> [181] "mice" "microbenchmark" "mime"
#> [184] "miniUI" "minqa" "mitml"
#> [187] "mize" "mlVAR" "mnormt"
#> [190] "modeldata" "modelenv" "modelr"
#> [193] "MplusAutomation" "multicool" "mvtnorm"
#> [196] "nloptr" "numDeriv" "nycflights13"
#> [199] "OpenMx" "openssl" "ordinal"
#> [202] "pan" "pander" "parallelly"
#> [205] "parsnip" "patchwork" "pbapply"
#> [208] "pbivnorm" "pbkrtest" "pcaPP"
#> [211] "pdftools" "pillar" "pkgbuild"
#> [214] "pkgconfig" "pkgdown" "pkgload"
#> [217] "plogr" "plyr" "png"
#> [220] "posterior" "pracma" "praise"
#> [223] "prettyunits" "printr" "processx"
#> [226] "prodlim" "profvis" "progress"
#> [229] "progressr" "promises" "proto"
#> [232] "ps" "psych" "purrr"
#> [235] "qgraph" "qpdf" "quadprog"
#> [238] "quantreg" "quarto" "QuickJSR"
#> [241] "R.cache" "R.methodsS3" "R.oo"
#> [244] "R.utils" "R2jags" "R2WinBUGS"

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#> [247] "R6"	"ragg"	"rainbow"
#> [250] "rappdirs"	"rbibutils"	"rcmdcheck"
#> [253] "RColorBrewer"	"Rcpp"	"RcppArmadillo"
#> [256] "RcppEigen"	"RcppGSL"	"RcppParallel"
#> [259] "RcppTOML"	"RCurl"	"Rdpack"
#> [262] "readr"	"readxl"	"recipes"
#> [265] "RefManageR"	"reformulas"	"rematch"
#> [268] "rematch2"	"remotes"	"reprex"
#> [271] "reshape2"	"reticulate"	"rex"
#> [274] "rhub"	"rjags"	"rlang"
#> [277] "RMariaDB"	"rmarkdown"	"roxygen2"
#> [280] "rpf"	"RPostgres"	"rProject"
#> [283] "rprojroot"	"rsample"	"RSQLite"
#> [286] "rstan"	"rstantools"	"rstudioapi"
#> [289] "rversions"	"rvest"	"Ryacas"
#> [292] "S7"	"sass"	"scales"
#> [295] "selectr"	"semlbci"	"semmccci"
#> [298] "sessioninfo"	"sfd"	"shape"
#> [301] "shiny"	"simStateSpace"	"slider"
#> [304] "snow"	"snowfall"	"sourcetools"
#> [307] "SparseM"	"sparsevctrs"	"SQUAREM"
#> [310] "StanHeaders"	"stringi"	"stringr"
#> [313] "styler"	"symSEM"	"sys"
#> [316] "systemfonts"	"tailor"	"tensorA"
#> [319] "testthat"	"texreg"	"textshaping"
#> [322] "tibble"	"tidymodels"	"tidyr"
#> [325] "tidyselect"	"tidyverse"	"timechange"
#> [328] "timeDate"	"tinytex"	"tune"
#> [331] "tzdb"	"ucminf"	"urlchecker"
#> [334] "usethis"	"utf8"	"uuid"
#> [337] "V8"	"vctrs"	"viridis"
#> [340] "viridisLite"	"vroom"	"waldo"
#> [343] "warp"	"whisker"	"whoami"
#> [346] "withr"	"workflows"	"workflowsets"
#> [349] "xfun"	"xml2"	"xmlparsedata"
#> [352] "xopen"	"xtable"	"yaml"
#> [355] "yardstick"	"zip"	"base"
#> [358] "boot"	"class"	"cluster"
#> [361] "codetools"	"compiler"	"datasets"
#> [364] "foreign"	"graphics"	"grDevices"
#> [367] "grid"	"KernSmooth"	"lattice"
#> [370] "MASS"	"Matrix"	"methods"
#> [373] "mgcv"	"nlme"	"nnet"
#> [376] "parallel"	"rpart"	"spatial"
#> [379] "splines"	"stats"	"stats4"

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#> [382] "survival"          "tcltk"             "tools"
#> [385] "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/>