

# 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] "fitDTVARmXID"      "simStateSpace"    "abind"
#> [4] "Amelia"            "arm"               "arrow"
#> [7] "ash"               "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"              "c0de"              "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"
#> [100] "furrr"             "future"            "future.apply"
#> [103] "gargle"            "generics"          "gert"
#> [106] "ggplot2"           "ggrepel"           "gh"
#> [109] "gitcreds"          "glasso"            "glmnet"
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#> [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"                "ifftools"
#> [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"
#> [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"          "prodlm"             "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"

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#> [247]	"R2WinBUGS"	"R6"	"ragg"
#> [250]	"rainbow"	"rappdirs"	"rbibutils"
#> [253]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [256]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [259]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [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]	"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. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>