

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.4.2 (2024-10-31)
#> 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-p0.3.26.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_2.6.0        lubridate_1.9.4  xfun_0.50
#>  [5] magrittr_2.0.3   glue_1.8.0      stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.4.9000   bibtex_0.5.1    compiler_4.4.2   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9      httr_1.4.7       tools_4.4.2
#> [21] evaluate_1.0.3   Rcpp_1.0.14     RefManageR_1.4.0 rlang_1.1.5
```

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#> [25] jsonlite_1.8.9   stringi_1.8.4
```

## Packages

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

```
#> [1] "bootStateSpace" "cli" "lintr"
#> [4] "R6" "rProject" "abind"
#> [7] "Amelia" "arm" "arrow"
#> [10] "ash" "AsioHeaders" "askpass"
#> [13] "assertthat" "backports" "base64enc"
#> [16] "betaDelta" "betaMC" "betaNB"
#> [19] "betaSandwich" "BH" "bibtex"
#> [22] "BiocManager" "bit" "bit64"
#> [25] "bitops" "blob" "bootStateSpace"
#> [28] "brew" "brio" "broom"
#> [31] "bslib" "cachem" "callr"
#> [34] "car" "caracas" "carData"
#> [37] "cellranger" "cfr" "checkmate"
#> [40] "cli" "clipr" "clock"
#> [43] "clusterGeneration" "coda" "c0de"
#> [46] "collections" "colorspace" "commonmark"
#> [49] "conflicted" "corpcor" "covr"
#> [52] "cowplot" "cpp11" "crayon"
#> [55] "credentials" "crosstalk" "cTMed"
#> [58] "ctsem" "curl" "cyclocomp"
#> [61] "data.table" "DBI" "dbplyr"
#> [64] "Deriv" "desc" "deSolve"
#> [67] "devtools" "diagram" "dials"
#> [70] "DiceDesign" "diffobj" "digest"
#> [73] "distributional" "distro" "doBy"
#> [76] "docopt" "doFuture" "downlit"
#> [79] "dplyr" "DT" "dtplyr"
#> [82] "duckdb" "dynr" "dynUtils"
#> [85] "ellipse" "ellipsis" "evaluate"
#> [88] "expm" "fans" "farver"
#> [91] "fastDummies" "fastmap" "fclust"
#> [94] "fda" "fdrtool" "fds"
#> [97] "fitCTVARMx" "fitDTVARMx" "FNN"
#> [100] "fontawesome" "forcats" "foreach"
#> [103] "Formula" "fs" "fst"
#> [106] "fstcore" "frrr" "future"
#> [109] "future.apply" "gargle" "generics"
```

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#> [112] "gert" "ggplot2" "ggrepel"
#> [115] "gh" "gitcreds" "glasso"
#> [118] "glmnet" "globals" "glue"
#> [121] "googledrive" "googlesheets4" "gower"
#> [124] "GPArotation" "GPfit" "graphicalVAR"
#> [127] "gridExtra" "gsubfn" "gtable"
#> [130] "gtools" "hardhat" "haven"
#> [133] "hdrcde" "here" "highr"
#> [136] "Hmisc" "hms" "htmlTable"
#> [139] "htmltools" "htmlwidgets" "httpgd"
#> [142] "httpuv" "httr" "httr2"
#> [145] "ids" "ifaTools" "igraph"
#> [148] "infer" "ini" "inline"
#> [151] "ipred" "isoband" "iterators"
#> [154] "jomo" "jpeg" "jquerylib"
#> [157] "jsonlite" "jsonvalidate" "kernlab"
#> [160] "knitr" "ks" "labeling"
#> [163] "Lahman" "languageserver" "later"
#> [166] "latex2exp" "lava" "lavaan"
#> [169] "lazyeval" "lhs" "lifecycle"
#> [172] "lintr" "listenv" "littler"
#> [175] "lme4" "locfit" "longMI"
#> [178] "loo" "lubridate" "magick"
#> [181] "magrittr" "markdown" "MatrixModels"
#> [184] "matrixStats" "mclust" "memoise"
#> [187] "metaSEM" "metaVAR" "mice"
#> [190] "microbenchmark" "mime" "miniUI"
#> [193] "minqa" "mitml" "mize"
#> [196] "mlVAR" "mnormt" "modeldata"
#> [199] "modelenv" "modelr" "MplusAutomation"
#> [202] "multicool" "munsell" "mvtnorm"
#> [205] "nloptr" "numDeriv" "nycflights13"
#> [208] "OpenMx" "openssl" "ordinal"
#> [211] "pan" "pander" "parallelly"
#> [214] "parsnip" "patchwork" "pbapply"
#> [217] "pbivnorm" "pbkrtest" "pcaPP"
#> [220] "pdftools" "pillar" "pkgbuild"
#> [223] "pkgconfig" "pkgdown" "pkgload"
#> [226] "plogr" "plyr" "png"
#> [229] "posterior" "pracma" "praise"
#> [232] "prettyunits" "printr" "processx"
#> [235] "prodlim" "profvis" "progress"
#> [238] "progressr" "promises" "proto"
#> [241] "ps" "psych" "purrr"
#> [244] "qgraph" "qpdf" "quadprog"

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

```
#> [382] "nnet"           "parallel"       "rpart"
#> [385] "spatial"        "splines"        "stats"
#> [388] "stats4"         "survival"       "tcltk"
#> [391] "tools"          "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/>