

# 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-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_2.6.0         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"    "distrib"            "doBy"
#> [76] "docopt"            "doFuture"           "downlit"
#> [79] "dplyr"             "DT"                 "dtplyr"
#> [82] "duckdb"            "dynr"               "dynUtils"
#> [85] "ellipse"           "ellipsoids"         "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"           "furrr"              "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/>