

# 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_0.0.17
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         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_3.6.3.9002  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_1.1.4
```

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

## Packages

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

```
#> [1] "simStateSpace"      "abind"              "arm"
#> [4] "arrow"              "ash"                "AsioHeaders"
#> [7] "askpass"            "assertthat"         "backports"
#> [10] "base64enc"          "betaDelta"          "betaMC"
#> [13] "betaNB"             "betaSandwich"       "BH"
#> [16] "bibtex"             "BiocManager"        "bit"
#> [19] "bit64"              "bitops"             "blob"
#> [22] "brew"               "brio"               "broom"
#> [25] "bslib"              "cachem"             "callr"
#> [28] "car"                "caracas"            "carData"
#> [31] "cellranger"         "cfrfr"              "checkmate"
#> [34] "cli"                "clipr"              "clock"
#> [37] "clusterGeneration" "coda"               "c0de"
#> [40] "collections"        "colorspace"         "commonmark"
#> [43] "conflicted"         "corpcor"            "covr"
#> [46] "cowplot"            "cpp11"              "crayon"
#> [49] "credentials"        "crosstalk"          "cTMed"
#> [52] "ctsem"              "curl"               "cyclocomp"
#> [55] "data.table"         "DBI"                "dbplyr"
#> [58] "Deriv"              "desc"               "deSolve"
#> [61] "devtools"           "diagram"            "dials"
#> [64] "DiceDesign"         "diffobj"            "digest"
#> [67] "distributional"     "distro"             "doBy"
#> [70] "docopt"             "doFuture"           "downlit"
#> [73] "dplyr"              "DT"                 "dtplyr"
#> [76] "dynr"               "dynUtils"           "ellipse"
#> [79] "ellipsis"           "evaluate"           "expm"
#> [82] "fansi"              "farver"             "fastDummies"
#> [85] "fastmap"            "fclust"             "fda"
#> [88] "fdrtool"            "fds"                "fitCTVARMx"
#> [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"       "httpgd"             "httpuv"
#> [136] "httr"              "httr2"              "ids"
#> [139] "ifaTools"          "igraph"             "infer"
#> [142] "ini"               "inline"             "ipred"
#> [145] "isoband"           "iterators"          "jomo"
#> [148] "jpeg"              "jquerylib"          "jsonlite"
#> [151] "jsonvalidate"      "kernlab"            "knitr"
#> [154] "ks"                "labeling"           "Lahman"
#> [157] "languageserver"    "later"              "latex2exp"
#> [160] "lava"              "lavaan"             "lazyeval"
#> [163] "lhs"               "lifecycle"          "lintr"
#> [166] "listenv"           "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] "munsell"           "mvtnorm"            "nloptr"
#> [199] "numDeriv"          "nycflights13"       "OpenMx"
#> [202] "openssl"           "ordinal"            "pan"
#> [205] "pander"            "parallelly"         "parsnip"
#> [208] "patchwork"         "pbapply"            "pbivnorm"
#> [211] "pbkrtest"          "pcaPP"              "pdftools"
#> [214] "pillar"            "pkgbuild"           "pkgconfig"
#> [217] "pkgdown"           "pkgload"            "plogr"
#> [220] "plyr"              "png"                "posterior"
#> [223] "pracma"            "praise"             "prettyunits"
#> [226] "printr"            "processx"           "proclim"
#> [229] "profvis"           "progress"           "progressr"
#> [232] "promises"          "proto"              "ps"
#> [235] "psych"             "purrr"              "qgraph"
#> [238] "qpdf"              "quadprog"           "quantreg"
#> [241] "quarto"            "QuickJSR"           "R.cache"
#> [244] "R.methodsS3"       "R.oo"               "R.utils"

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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]	"sass"	"scales"	"selectr"
#> [295]	"semblci"	"semmccci"	"sessioninfo"
#> [298]	"sfd"	"shape"	"shiny"
#> [301]	"simStateSpace"	"slider"	"snow"
#> [304]	"snowfall"	"sourcetools"	"SparseM"
#> [307]	"SQUAREM"	"StanHeaders"	"statmod"
#> [310]	"stringi"	"stringr"	"styler"
#> [313]	"symSEM"	"sys"	"systemfonts"
#> [316]	"tensorA"	"testthat"	"texreg"
#> [319]	"textshaping"	"tibble"	"tidymodels"
#> [322]	"tidyr"	"tidyselect"	"tidyverse"
#> [325]	"timechange"	"timeDate"	"tinytex"
#> [328]	"tune"	"tzdb"	"ucminf"
#> [331]	"unigd"	"urlchecker"	"usethis"
#> [334]	"utf8"	"uuid"	"V8"
#> [337]	"vctrs"	"viridis"	"viridisLite"
#> [340]	"vroom"	"waldo"	"warp"
#> [343]	"whisker"	"whoami"	"withr"
#> [346]	"workflows"	"workflowsets"	"xfun"
#> [349]	"xml2"	"xmlparsedata"	"xopen"
#> [352]	"xtable"	"yaml"	"yardstick"
#> [355]	"zip"	"base"	"boot"
#> [358]	"class"	"cluster"	"codetools"
#> [361]	"compiler"	"datasets"	"foreign"
#> [364]	"graphics"	"grDevices"	"grid"
#> [367]	"KernSmooth"	"lattice"	"MASS"
#> [370]	"Matrix"	"methods"	"mgcv"
#> [373]	"nlme"	"nnet"	"parallel"
#> [376]	"rpart"	"spatial"	"splines"
#> [379]	"stats"	"stats4"	"survival"

```
#> [382] "tcltk"          "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/>