

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-r0.3.20.so; LAPACK version 3.10.3
#>
#> 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1        lubridate_1.9.3  xfun_0.45
#>  [5] magrittr_2.0.3   glue_1.7.0      stringr_1.5.1    knitr_1.47
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1     compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9      httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.12     RefManageR_1.4.0 rlang_1.1.4
```

```
#> [25] jsonlite_1.8.8 stringi_1.8.4
```

## Packages

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

```
#> [1] "fitDTVARMx"      "abind"           "arrow"           "ash"
#> [5] "AsioHeaders"     "askpass"         "assertthat"      "backports"
#> [9] "base64enc"       "betaDelta"       "betaMC"          "betaNB"
#> [13] "betaSandwich"    "BH"              "bibtex"          "BiocManager"
#> [17] "bit"             "bit64"           "bitops"          "blob"
#> [21] "brew"            "brio"            "broom"           "bslib"
#> [25] "cachem"          "callr"           "car"             "caracas"
#> [29] "carData"         "cellranger"      "cfrfr"           "checkmate"
#> [33] "cli"             "clipr"           "clock"           "coda"
#> [37] "c0de"            "collections"     "colorspace"      "commonmark"
#> [41] "conflicted"      "corpcor"         "covr"            "cowplot"
#> [45] "cpp11"           "crayon"          "credentials"     "crosstalk"
#> [49] "cTMed"           "ctsem"           "curl"            "cyclocomp"
#> [53] "data.table"      "DBI"             "dbplyr"          "Deriv"
#> [57] "desc"            "deSolve"         "devtools"        "diagram"
#> [61] "dials"           "DiceDesign"      "diffobj"         "digest"
#> [65] "distributional"  "distrib"         "doBy"            "docopt"
#> [69] "doFuture"        "downlit"         "dplyr"           "DT"
#> [73] "dtplyr"          "duckdb"          "dynr"            "dynUtils"
#> [77] "ellipse"         "ellipsoids"      "evaluate"        "expm"
#> [81] "fansi"           "farver"          "fastDummies"     "fastmap"
#> [85] "fclust"          "fda"             "fdrtool"         "fds"
#> [89] "fitDTVARMx"      "FNN"             "fontawesome"     "forcats"
#> [93] "foreach"         "Formula"         "fs"              "fst"
#> [97] "fstcore"         "furrr"           "future"          "future.apply"
#> [101] "gargle"          "generics"        "gert"            "ggplot2"
#> [105] "ggrepel"         "gh"              "gitcreds"        "glasso"
#> [109] "glmnet"          "globals"         "glue"            "googledrive"
#> [113] "googlesheets4"   "gower"           "GPArotation"     "GPfit"
#> [117] "gridExtra"       "gsubfn"          "gtable"          "gtools"
#> [121] "hardhat"         "haven"           "hdcrcde"         "here"
#> [125] "highr"           "Hmisc"           "hms"             "htmlTable"
#> [129] "htmltools"       "htmlwidgets"     "httpgd"          "httpuv"
#> [133] "httr"            "httr2"           "ids"             "ifftools"
#> [137] "igraph"          "infer"           "ini"             "inline"
#> [141] "ipred"           "isoband"         "iterators"       "jomo"
#> [145] "jpeg"            "jquerylib"       "jsonlite"        "jsonvalidate"
```

#> [149]	"kernlab"	"knitr"	"ks"	"labeling"
#> [153]	"Lahman"	"languageserver"	"later"	"latex2exp"
#> [157]	"lava"	"lavaan"	"lazyeval"	"lhs"
#> [161]	"lifecycle"	"lintr"	"listenv"	"littler"
#> [165]	"lme4"	"locfit"	"longMI"	"loo"
#> [169]	"lubridate"	"magick"	"magrittr"	"markdown"
#> [173]	"MatrixModels"	"matrixStats"	"mclust"	"memoise"
#> [177]	"metaSEM"	"metaVAR"	"mice"	"microbenchmark"
#> [181]	"mime"	"miniUI"	"minqa"	"mitml"
#> [185]	"mize"	"mnormt"	"modeldata"	"modelenv"
#> [189]	"modelr"	"MplusAutomation"	"multicool"	"munsell"
#> [193]	"mvtnorm"	"nloptr"	"numDeriv"	"nycflights13"
#> [197]	"OpenMx"	"openssl"	"ordinal"	"pan"
#> [201]	"pander"	"parallelly"	"parsnip"	"patchwork"
#> [205]	"pbapply"	"pbivnorm"	"pbkrtest"	"pcaPP"
#> [209]	"pdftools"	"pillar"	"pkgbuild"	"pkgconfig"
#> [213]	"pkgdown"	"pkgload"	"plogr"	"plyr"
#> [217]	"png"	"posterior"	"pracma"	"praise"
#> [221]	"prettyunits"	"printr"	"processx"	"prodlim"
#> [225]	"profvis"	"progress"	"progressr"	"promises"
#> [229]	"proto"	"ps"	"psych"	"purrr"
#> [233]	"qgraph"	"qpdf"	"quadprog"	"quantreg"
#> [237]	"quarto"	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [241]	"R.oo"	"R.utils"	"R6"	"ragg"
#> [245]	"rainbow"	"rappdirs"	"rbibutils"	"rcmdcheck"
#> [249]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#> [253]	"RcppGSL"	"RcppParallel"	"RcppTOML"	"RCurl"
#> [257]	"Rdpack"	"readr"	"readxl"	"recipes"
#> [261]	"RefManager"	"rematch"	"rematch2"	"remotes"
#> [265]	"reprex"	"reshape2"	"reticulate"	"rex"
#> [269]	"rhub"	"rlang"	"RMariaDB"	"rmarkdown"
#> [273]	"roxygen2"	"rpf"	"RPostgres"	"rProject"
#> [277]	"rprojroot"	"rsample"	"RSQLite"	"rstan"
#> [281]	"rstantools"	"rstudioapi"	"rversions"	"rvest"
#> [285]	"Ryacas"	"sass"	"scales"	"selectr"
#> [289]	"semlbci"	"semmccci"	"sessioninfo"	"shape"
#> [293]	"shiny"	"simStateSpace"	"slider"	"snow"
#> [297]	"snowfall"	"sourcetools"	"SparseM"	"SQUAREM"
#> [301]	"StanHeaders"	"statmod"	"stringi"	"stringr"
#> [305]	"styler"	"symSEM"	"sys"	"systemfonts"
#> [309]	"tensorA"	"testthat"	"texreg"	"textshaping"
#> [313]	"tibble"	"tidymodels"	"tidyr"	"tidyselect"
#> [317]	"tidyverse"	"timechange"	"timeDate"	"tinytex"
#> [321]	"tune"	"tzdb"	"ucminf"	"unigd"
#> [325]	"urlchecker"	"usethis"	"utf8"	"uuid"

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#> [329] "V8" "vctrs" "viridis" "viridisLite"
#> [333] "vroom" "waldo" "warp" "whisker"
#> [337] "whoami" "withr" "workflows" "workflowsets"
#> [341] "xfun" "xml2" "xmlparsedata" "xopen"
#> [345] "xtable" "yaml" "yardstick" "zip"
#> [349] "base" "boot" "class" "cluster"
#> [353] "codetools" "compiler" "datasets" "foreign"
#> [357] "graphics" "grDevices" "grid" "KernSmooth"
#> [361] "lattice" "MASS" "Matrix" "methods"
#> [365] "mgcv" "nlme" "nnet" "parallel"
#> [369] "rpart" "spatial" "splines" "stats"
#> [373] "stats4" "survival" "tcltk" "tools"
#> [377] "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/>