

# 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.46
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.48
#>  [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_1.0.13      RefManageR_1.4.0 rlang_1.1.4
```

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

## Packages

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

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

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

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#> [329] "urlchecker"      "usethis"          "utf8"             "uuid"
#> [333] "V8"              "vctrs"            "viridis"          "viridisLite"
#> [337] "vroom"           "waldo"            "warp"             "whisker"
#> [341] "whoami"          "withr"            "workflows"        "workflowsets"
#> [345] "xfun"            "xml2"             "xmlparsedata"     "xopen"
#> [349] "xtable"          "yaml"             "yardstick"        "zip"
#> [353] "base"            "boot"             "class"            "cluster"
#> [357] "codetools"       "compiler"         "datasets"         "foreign"
#> [361] "graphics"        "grDevices"        "grid"             "KernSmooth"
#> [365] "lattice"         "MASS"             "Matrix"           "methods"
#> [369] "mgcv"            "nlme"             "nnet"             "parallel"
#> [373] "rpart"           "spatial"          "splines"          "stats"
#> [377] "stats4"          "survival"         "tcltk"            "tools"
#> [381] "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/>