

# 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

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

```
#> [1] "fitCTVARMx"      "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] "fitCTVARMx"      "fitDTVARMx"      "FNN"            "fontawesome"
#> [93] "forcats"         "foreach"         "Formula"        "fs"
#> [97] "fst"             "fstcore"         "furry"          "future"
#> [101] "future.apply"    "gargle"          "generics"       "gert"
#> [105] "ggplot2"         "ggrepel"         "gh"             "gitcreds"
#> [109] "glasso"          "glmnet"          "globals"        "glue"
#> [113] "googledrive"     "googlesheets4"   "gower"          "GPArotation"
#> [117] "GPfit"           "gridExtra"       "gsubfn"         "gtable"
#> [121] "gtools"          "hardhat"         "haven"          "hdcrcde"
#> [125] "here"            "highr"           "Hmisc"          "hms"
#> [129] "htmlTable"       "htmltools"       "htmlwidgets"    "httpgd"
#> [133] "httpuv"          "httr"            "httr2"          "ids"
#> [137] "ifaTools"        "igraph"          "infer"          "ini"
#> [141] "inline"          "ipred"           "isoband"        "iterators"
#> [145] "jomo"            "jpeg"            "jquerylib"      "jsonlite"
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#> [149] "jsonvalidate"      "kernlab"           "knitr"             "ks"
#> [153] "labeling"          "Lahman"            "languageserver"    "later"
#> [157] "latex2exp"         "lava"              "lavaan"            "lazyeval"
#> [161] "lhs"               "lifecycle"         "lintr"             "listenv"
#> [165] "littler"           "lme4"              "locfit"            "longMI"
#> [169] "loo"               "lubridate"         "magick"            "magrittr"
#> [173] "markdown"          "MatrixModels"     "matrixStats"       "mclust"
#> [177] "memoise"           "metaSEM"           "metaVAR"           "mice"
#> [181] "microbenchmark"    "mime"              "miniUI"            "minqa"
#> [185] "mitml"             "mize"              "mnormt"            "modeldata"
#> [189] "modelenv"          "modelr"            "MplusAutomation"  "multicool"
#> [193] "munsell"           "mvtnorm"           "nloptr"            "numDeriv"
#> [197] "nycflights13"      "OpenMx"            "openssl"           "ordinal"
#> [201] "pan"               "pander"            "parallelly"        "parsnip"
#> [205] "patchwork"         "pbapply"           "pbivnorm"          "pbkrtest"
#> [209] "pcaPP"             "pdftools"          "pillar"            "pkgbuild"
#> [213] "pkgconfig"         "pkgdown"           "pkgload"           "plogr"
#> [217] "plyr"              "png"               "posterior"         "pracma"
#> [221] "praise"            "prettyunits"       "printr"            "processx"
#> [225] "prodlm"            "profvis"           "progress"          "progressr"
#> [229] "promises"          "proto"             "ps"                "psych"
#> [233] "purrr"             "qgraph"            "qpdf"              "quadprog"
#> [237] "quantreg"          "quarto"            "QuickJSR"          "R.cache"
#> [241] "R.methodsS3"       "R.oo"              "R.utils"           "R6"
#> [245] "ragg"              "rainbow"           "rappdirs"          "rbibutils"
#> [249] "rcmdcheck"         "RColorBrewer"      "Rcpp"              "RcppArmadillo"
#> [253] "RcppEigen"         "RcppGSL"           "RcppParallel"      "RcppTOML"
#> [257] "RCurl"             "Rdpack"            "readr"             "readxl"
#> [261] "recipes"           "RefManageR"        "rematch"           "rematch2"
#> [265] "remotes"           "reprex"            "reshape2"          "reticulate"
#> [269] "rex"               "rhub"              "rlang"             "RMariaDB"
#> [273] "rmarkdown"         "roxygen2"          "rpf"               "RPostgres"
#> [277] "rProject"          "rprojroot"         "rsample"           "RSQLite"
#> [281] "rstan"             "rstantools"        "rstudioapi"        "rversions"
#> [285] "rvest"             "Ryacas"            "sass"              "scales"
#> [289] "selectr"           "semlbci"           "semmcci"           "sessioninfo"
#> [293] "shape"             "shiny"             "simStateSpace"     "slider"
#> [297] "snow"              "snowfall"          "sourcetools"       "SparseM"
#> [301] "SQUAREM"           "StanHeaders"       "statmod"           "stringi"
#> [305] "stringr"           "styler"            "symSEM"            "sys"
#> [309] "systemfonts"       "tensorA"           "testthat"          "texreg"
#> [313] "textshaping"       "tibble"            "tidymodels"        "tidyr"
#> [317] "tidyselect"        "tidyverse"         "timechange"        "timeDate"
#> [321] "tinytex"           "tune"              "tzdb"              "ucminf"
#> [325] "unigd"             "urlchecker"        "usethis"           "utf8"

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

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## 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/>