

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

## Packages

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

```
#> [1] "fitCTVARMx"      "pkgload"         "ps"              "roxygen2"
#> [5] "rProject"        "tinytex"         "abind"           "arrow"
#> [9] "ash"             "AsioHeaders"     "askpass"         "assertthat"
#> [13] "backports"       "base64enc"       "betaDelta"       "betaMC"
#> [17] "betaNB"          "betaSandwich"    "BH"              "bibtex"
#> [21] "BiocManager"     "bit"             "bit64"           "bitops"
#> [25] "blob"            "brew"            "brio"            "broom"
#> [29] "bslib"           "cachem"          "callr"           "car"
#> [33] "caracas"         "carData"         "cellranger"      "cfrfr"
#> [37] "checkmate"       "cli"             "clipr"           "clock"
#> [41] "coda"            "cOde"            "collections"     "colorspace"
#> [45] "commonmark"      "conflicted"      "corpcor"         "covr"
#> [49] "cowplot"         "cpp11"           "crayon"          "credentials"
#> [53] "crosstalk"       "cTMed"           "ctsem"           "curl"
#> [57] "cyclocomp"       "data.table"      "DBI"             "dbplyr"
#> [61] "Deriv"           "desc"            "deSolve"         "devtools"
#> [65] "diagram"         "dials"           "DiceDesign"      "diffobj"
#> [69] "digest"          "distributional"  "distro"          "doBy"
#> [73] "docopt"          "doFuture"        "downlit"         "dplyr"
#> [77] "DT"              "dtplyr"          "duckdb"          "dynr"
#> [81] "dynUtils"        "ellipse"         "ellipsis"        "evaluate"
#> [85] "expm"            "fansi"           "farver"          "fastDummies"
#> [89] "fastmap"         "fclust"          "fda"             "fdrtool"
#> [93] "fds"             "FNN"             "fontawesome"     "forcats"
#> [97] "foreach"         "Formula"         "fs"              "fst"
#> [101] "fstcore"         "furry"           "future"          "future.apply"
#> [105] "gargle"          "generics"        "gert"            "ggplot2"
#> [109] "ggrepel"         "gh"              "gitcreds"        "glasso"
#> [113] "glmnet"          "globals"         "glue"            "googledrive"
#> [117] "googlesheets4"   "gower"           "GPfit"           "gridExtra"
#> [121] "gsubfn"          "gtable"          "gtools"          "hardhat"
#> [125] "haven"           "hdcrcde"         "here"            "highr"
#> [129] "Hmisc"           "hms"             "htmlTable"       "htmltools"
#> [133] "htmlwidgets"     "httpgd"          "httpuv"          "httr"
#> [137] "httr2"           "ids"             "ifaTools"        "igraph"
#> [141] "infer"           "ini"             "inline"          "ipred"
#> [145] "isoband"         "iterators"       "jomo"            "jpeg"
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#> [149] "jquerylib"      "jsonlite"      "jsonvalidate"  "kernlab"
#> [153] "knitr"          "ks"            "labeling"      "Lahman"
#> [157] "languageserver" "later"         "latex2exp"     "lava"
#> [161] "lavaan"         "lazyeval"      "lhs"           "lifecycle"
#> [165] "lintr"          "listenv"       "littler"       "lme4"
#> [169] "locfit"         "longMI"        "loo"           "lubridate"
#> [173] "magick"         "magrittr"      "markdown"      "MatrixModels"
#> [177] "matrixStats"   "mclust"        "memoise"       "metaSEM"
#> [181] "mice"           "microbenchmark" "mime"          "miniUI"
#> [185] "minqa"         "mitml"         "mize"          "mnormt"
#> [189] "modeldata"     "modelenv"      "modelr"        "MplusAutomation"
#> [193] "multicool"     "munsell"       "mvtnorm"       "nloptr"
#> [197] "numDeriv"      "nycflights13" "OpenMx"        "openssl"
#> [201] "ordinal"       "pan"           "pander"        "parallelly"
#> [205] "parsnip"       "patchwork"     "pbapply"       "pbivnorm"
#> [209] "pbkrtest"      "pcaPP"         "pdftools"      "pillar"
#> [213] "pkgbuild"      "pkgconfig"     "pkgdown"       "pkgload"
#> [217] "plogr"         "plyr"          "png"           "posterior"
#> [221] "pracma"        "praise"        "prettyunits"   "printr"
#> [225] "processx"      "prodlim"       "profvis"       "progress"
#> [229] "progressr"     "promises"      "proto"         "ps"
#> [233] "psych"         "purrr"         "qgraph"        "qpdf"
#> [237] "quadprog"      "quantreg"      "quarto"        "QuickJSR"
#> [241] "R.cache"       "R.methodsS3"   "R.oo"          "R.utils"
#> [245] "R6"            "ragg"          "rainbow"       "rappdirs"
#> [249] "rbibutils"     "rcmdcheck"     "RColorBrewer"  "Rcpp"
#> [253] "RcppArmadillo" "RcppEigen"     "RcppGSL"       "RcppParallel"
#> [257] "RcppTOML"      "RCurl"         "Rdpack"        "readr"
#> [261] "readxl"        "recipes"       "RefManageR"    "rematch"
#> [265] "rematch2"      "remotes"       "reprex"        "reshape2"
#> [269] "reticulate"    "rex"           "rhub"          "rlang"
#> [273] "RMariaDB"      "rmarkdown"     "roxygen2"      "rpf"
#> [277] "RPostgres"     "rProject"      "rprojroot"     "rsample"
#> [281] "RSQLite"       "rstan"         "rstantools"    "rstudioapi"
#> [285] "rversions"     "rvest"         "Ryacas"        "sass"
#> [289] "scales"        "selectr"       "semlbci"       "semmcci"
#> [293] "sessioninfo"   "shape"         "shiny"         "simStateSpace"
#> [297] "slider"        "snow"          "snowfall"      "sourcetools"
#> [301] "SparseM"       "SQUAREM"       "StanHeaders"   "statmod"
#> [305] "stringi"       "stringr"       "styler"        "symSEM"
#> [309] "sys"           "systemfonts"   "tensorA"       "testthat"
#> [313] "texreg"        "textshaping"   "tibble"        "tidymodels"
#> [317] "tidyr"         "tidyselect"    "tidyverse"     "timechange"
#> [321] "timeDate"      "tinytex"       "tune"          "tzdb"
#> [325] "ucminf"        "unigd"         "urlchecker"    "usethis"

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