

# 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"         "yaml"            "abind"
#> [9] "arrow"           "ash"             "AsioHeaders"     "askpass"
#> [13] "assertthat"      "backports"       "base64enc"       "betaDelta"
#> [17] "betaMC"          "betaNB"          "betaSandwich"    "BH"
#> [21] "bibtex"          "BiocManager"     "bit"             "bit64"
#> [25] "bitops"          "blob"            "brew"            "brio"
#> [29] "broom"           "bslib"           "cachem"          "callr"
#> [33] "car"             "caracas"         "carData"         "cellranger"
#> [37] "cffi"            "checkmate"       "cli"             "clipr"
#> [41] "clock"           "coda"            "c0de"            "collections"
#> [45] "colorspace"      "commonmark"      "conflicted"      "corpcor"
#> [49] "covr"            "cowplot"         "cpp11"           "crayon"
#> [53] "credentials"     "crosstalk"       "cTMed"           "ctsem"
#> [57] "curl"            "cyclocomp"       "data.table"      "DBI"
#> [61] "dbplyr"          "Deriv"           "desc"            "deSolve"
#> [65] "devtools"        "diagram"         "dials"           "DiceDesign"
#> [69] "diffobj"         "digest"          "distributional"  "distro"
#> [73] "doBy"            "docopt"          "doFuture"        "downlit"
#> [77] "dplyr"           "DT"              "dtplyr"          "duckdb"
#> [81] "dynr"            "dynUtils"        "ellipse"         "ellipsis"
#> [85] "evaluate"        "expm"            "fansI"           "farver"
#> [89] "fastDummies"     "fastmap"         "fclust"          "fda"
#> [93] "fdrtool"         "fds"             "FNN"             "fontawesome"
#> [97] "forcats"         "foreach"         "Formula"         "fs"
#> [101] "fst"             "fstcore"         "furrr"           "future"
#> [105] "future.apply"    "gargle"          "generics"        "gert"
#> [109] "ggplot2"         "ggrepel"         "gh"              "gitcreds"
#> [113] "glasso"          "glmnet"          "globals"         "glue"
#> [117] "googledrive"     "googlesheets4"  "gower"           "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"
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#> [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"       "mice"          "microbenchmark" "mime"
#> [185] "miniUI"        "minqa"         "mitml"          "mize"
#> [189] "mnormt"        "modeldata"     "modelenv"       "modelr"
#> [193] "MplusAutomation" "multicool"    "munsell"        "mvtnorm"
#> [197] "nloptr"        "numDeriv"      "nycflights13"   "OpenMx"
#> [201] "openssl"       "ordinal"       "pan"            "pander"
#> [205] "parallelly"    "parsnip"       "patchwork"      "pbapply"
#> [209] "pbivnorm"      "pbrkrttest"    "pcaPP"          "pdftools"
#> [213] "pillar"        "pkgbuild"      "pkgconfig"      "pkgdown"
#> [217] "pkgload"       "plogr"         "plyr"           "png"
#> [221] "posterior"     "pracma"        "praise"         "prettyunits"
#> [225] "printr"        "processx"      "prodlm"         "profvis"
#> [229] "progress"      "progressr"     "promises"       "proto"
#> [233] "ps"            "psych"         "purrr"          "qgraph"
#> [237] "qpdf"          "quadprog"      "quantreg"       "quarto"
#> [241] "QuickJSR"      "R.cache"       "R.methodsS3"    "R.oo"
#> [245] "R.utils"       "R6"            "ragg"           "rainbow"
#> [249] "rappdirs"      "rbibutils"     "rcmdcheck"      "RColorBrewer"
#> [253] "Rcpp"          "RcppArmadillo" "RcppEigen"      "RcppGSL"
#> [257] "RcppParallel"  "RcppTOML"      "RCurl"          "Rdpack"
#> [261] "readr"         "readxl"        "recipes"        "RefManagerR"
#> [265] "rematch"       "rematch2"      "remotes"        "reprex"
#> [269] "reshape2"     "reticulate"    "rex"            "rhub"
#> [273] "rlang"         "RMariaDB"      "rmarkdown"      "roxygen2"
#> [277] "rpf"          "RPostgres"     "rProject"       "rprojroot"
#> [281] "rsample"       "RSQLite"       "rstan"          "rstantools"
#> [285] "rstudioapi"    "rversions"     "rvest"          "Ryacas"
#> [289] "sass"          "scales"        "selectr"        "semlbci"
#> [293] "semmcci"       "sessioninfo"   "shape"          "shiny"
#> [297] "simStateSpace" "slider"        "snow"           "snowfall"
#> [301] "sourcetools"   "SparseM"       "SQUAREM"        "StanHeaders"
#> [305] "statmod"       "stringi"       "stringr"        "styler"
#> [309] "symSEM"        "sys"           "systemfonts"    "tensorA"
#> [313] "testthat"      "texreg"        "textshaping"    "tibble"
#> [317] "tidymodels"    "tidyr"         "tidyselect"     "tidyverse"
#> [321] "timechange"     "timeDate"      "tinytex"        "tune"
#> [325] "tzdb"          "ucminf"        "unigd"          "urlchecker"

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