

# 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_1.48
#>  [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_1.0.12      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"      "knitr"           "pkgdown"         "rProject"
#> [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"            "cOde"
#> [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"             "fitDTVARMx"
#> [93] "FNN"             "fontawesome"     "forcats"         "foreach"
#> [97] "Formula"         "fs"              "fst"             "fstcore"
#> [101] "furrr"           "future"          "future.apply"    "gargle"
#> [105] "generics"        "gert"            "ggplot2"         "ggrepel"
#> [109] "gh"              "gitcreds"        "glasso"          "glmnet"
#> [113] "globals"         "glue"            "googledrive"     "googlesheets4"
#> [117] "gower"           "GPArotation"     "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] "metaVAR"        "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/>