Session Info

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Session

```r
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/libopenblasp-r0.3.20.so;  LAPACK version 3.10.
#>
#> 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

```
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"    "cffr"          "checkmate"
#>  [33] "cli"           "clipr"         "clock"         "coda"
#>  [37] "cOde"          "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" "distro"       "doBy"          "docopt"
#>  [69] "doFuture"      "downlit"       "dplyr"         "DT"
#>  [73] "dtplyr"        "duckdb"        "dynr"          "dynUtils"
#>  [77] "ellipse"       "ellipsis"      "evaluate"      "expm"
#>  [81] "fansi"         "farver"        "fastDummies"   "fastmap"
#>  [85] "fclust"        "fda"           "fdrtool"       "fds"
#>  [89] "fitDTVARMx"    "FNN"           "fontawesome"   "forcats"
#>  [93] "foreach"       "Formula"       "fs"            "fst"
#>  [97] "fstcore"       "furrr"         "future"        "future.apply"
#> [101] "gargle"        "generics"      "gert"          "ggplot2"
#> [105] "ggrepel"       "gh"            "gitcreds"      "glasso"
#> [109] "glmnet"        "globals"       "glue"          "googledrive"
#> [113] "googlesheets4" "gower"         "GPArotation"   "GPfit"
#> [117] "gridExtra"     "gsubfn"        "gtable"        "gtools"
#> [121] "hardhat"       "haven"         "hdrcde"        "here"
#> [125] "highr"         "Hmisc"         "hms"           "htmlTable"
#> [129] "htmltools"     "htmlwidgets"   "httpgd"        "httpuv"
#> [133] "httr"          "httr2"         "ids"           "ifaTools"
#> [137] "igraph"        "infer"         "ini"           "inline"
#> [141] "ipred"         "isoband"       "iterators"     "jomo"
#> [145] "jpeg"          "jquerylib"     "jsonlite"      "jsonvalidate"
```

```
#> [149] "kernlab"        "knitr"            "ks"              "labeling"
#> [153] "Lahman"         "languageserver"   "later"           "latex2exp"
#> [157] "lava"           "lavaan"           "lazyeval"        "lhs"
#> [161] "lifecycle"      "lintr"            "listenv"         "littler"
#> [165] "lme4"           "locfit"           "longMI"          "loo"
#> [169] "lubridate"      "magick"           "magrittr"        "markdown"
#> [173] "MatrixModels"   "matrixStats"      "mclust"          "memoise"
#> [177] "metaSEM"        "metaVAR"          "mice"            "microbenchmark"
#> [181] "mime"           "miniUI"           "minqa"           "mitml"
#> [185] "mize"           "mnormt"           "modeldata"       "modelenv"
#> [189] "modelr"         "MplusAutomation"  "multicool"       "munsell"
#> [193] "mvtnorm"        "nloptr"           "numDeriv"        "nycflights13"
#> [197] "OpenMx"         "openssl"          "ordinal"         "pan"
#> [201] "pander"         "parallelly"       "parsnip"         "patchwork"
#> [205] "pbapply"        "pbivnorm"         "pbkrtest"        "pcaPP"
#> [209] "pdftools"       "pillar"           "pkgbuild"        "pkgconfig"
#> [213] "pkgdown"        "pkgload"          "plogr"           "plyr"
#> [217] "png"            "posterior"        "pracma"          "praise"
#> [221] "prettyunits"    "printr"           "processx"        "prodlim"
#> [225] "profvis"        "progress"         "progressr"       "promises"
#> [229] "proto"          "ps"               "psych"           "purrr"
#> [233] "qgraph"         "qpdf"             "quadprog"        "quantreg"
#> [237] "quarto"         "QuickJSR"         "R.cache"         "R.methodsS3"
#> [241] "R.oo"           "R.utils"          "R6"              "ragg"
#> [245] "rainbow"        "rappdirs"         "rbibutils"       "rcmdcheck"
#> [249] "RColorBrewer"   "Rcpp"             "RcppArmadillo"   "RcppEigen"
#> [253] "RcppGSL"        "RcppParallel"     "RcppTOML"        "RCurl"
#> [257] "Rdpack"         "readr"            "readxl"          "recipes"
#> [261] "RefManageR"     "rematch"          "rematch2"        "remotes"
#> [265] "reprex"         "reshape2"         "reticulate"      "rex"
#> [269] "rhub"           "rlang"            "RMariaDB"        "rmarkdown"
#> [273] "roxygen2"       "rpf"              "RPostgres"       "rProject"
#> [277] "rprojroot"      "rsample"          "RSQLite"         "rstan"
#> [281] "rstantools"     "rstudioapi"       "rversions"       "rvest"
#> [285] "Ryacas"         "sass"             "scales"          "selectr"
#> [289] "semlbci"        "semmcci"          "sessioninfo"     "shape"
#> [293] "shiny"          "simStateSpace"    "slider"          "snow"
#> [297] "snowfall"       "sourcetools"      "SparseM"         "SQUAREM"
#> [301] "StanHeaders"    "statmod"          "stringi"         "stringr"
#> [305] "styler"         "symSEM"           "sys"             "systemfonts"
#> [309] "tensorA"        "testthat"         "texreg"          "textshaping"
#> [313] "tibble"         "tidymodels"       "tidyr"           "tidyselect"
#> [317] "tidyverse"      "timechange"       "timeDate"        "tinytex"
#> [321] "tune"           "tzdb"             "ucminf"          "unigd"
#> [325] "urlchecker"     "usethis"          "utf8"            "uuid"
```

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