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_1.48
#>  [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
```

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

Packages

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

```
#>   [1] "fitCTVARMx"     "knitr"          "pkgdown"        "pkgload"
#>   [5] "ps"             "roxygen2"       "rProject"       "tinytex"
#>   [9] "yaml"           "abind"          "arrow"          "ash"
#>  [13] "AsioHeaders"    "askpass"        "assertthat"     "backports"
#>  [17] "base64enc"      "betaDelta"      "betaMC"         "betaNB"
#>  [21] "betaSandwich"   "BH"             "bibtex"         "BiocManager"
#>  [25] "bit"            "bit64"          "bitops"         "blob"
#>  [29] "brew"           "brio"           "broom"          "bslib"
#>  [33] "cachem"         "callr"          "car"            "caracas"
#>  [37] "carData"        "cellranger"     "cffr"           "checkmate"
#>  [41] "cli"            "clipr"          "clock"          "coda"
#>  [45] "cOde"           "collections"    "colorspace"     "commonmark"
#>  [49] "conflicted"     "corpcor"        "covr"           "cowplot"
#>  [53] "cpp11"          "crayon"         "credentials"    "crosstalk"
#>  [57] "cTMed"          "ctsem"          "curl"           "cyclocomp"
#>  [61] "data.table"     "DBI"            "dbplyr"         "Deriv"
#>  [65] "desc"           "deSolve"        "devtools"       "diagram"
#>  [69] "dials"          "DiceDesign"     "diffobj"        "digest"
#>  [73] "distributional" "distro"         "doBy"           "docopt"
#>  [77] "doFuture"       "downlit"        "dplyr"          "DT"
#>  [81] "dtplyr"         "duckdb"         "dynr"           "dynUtils"
#>  [85] "ellipse"        "ellipsis"       "evaluate"       "expm"
#>  [89] "fansi"          "farver"         "fastDummies"    "fastmap"
#>  [93] "fclust"         "fda"            "fdrtool"        "fds"
#>  [97] "FNN"            "fontawesome"    "forcats"        "foreach"
#> [101] "Formula"        "fs"             "fst"            "fstcore"
#> [105] "furrr"          "future"         "future.apply"   "gargle"
#> [109] "generics"       "gert"           "ggplot2"        "ggrepel"
#> [113] "gh"             "gitcreds"       "glasso"         "glmnet"
#> [117] "globals"        "glue"           "googledrive"    "googlesheets4"
#> [121] "gower"          "GPfit"          "gridExtra"      "gsubfn"
#> [125] "gtable"         "gtools"         "hardhat"        "haven"
#> [129] "hdrcde"         "here"           "highr"          "Hmisc"
#> [133] "hms"            "htmlTable"      "htmltools"      "htmlwidgets"
#> [137] "httpgd"         "httpuv"         "httr"           "httr2"
#> [141] "ids"            "ifaTools"       "igraph"         "infer"
#> [145] "ini"            "inline"         "ipred"          "isoband"
```

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

```
#> [329] "unigd"         "urlchecker"    "usethis"       "utf8"
#> [333] "uuid"          "V8"            "vctrs"         "viridis"
#> [337] "viridisLite"   "vroom"         "waldo"         "warp"
#> [341] "whisker"       "whoami"        "withr"         "workflows"
#> [345] "workflowsets"  "xfun"          "xml2"          "xmlparsedata"
#> [349] "xopen"         "xtable"        "yaml"          "yardstick"
#> [353] "zip"           "base"          "boot"          "class"
#> [357] "cluster"       "codetools"     "compiler"      "datasets"
#> [361] "foreign"       "graphics"      "grDevices"     "grid"
#> [365] "KernSmooth"    "lattice"       "MASS"          "Matrix"
#> [369] "methods"       "mgcv"          "nlme"          "nnet"
#> [373] "parallel"      "rpart"         "spatial"       "splines"
#> [377] "stats"         "stats4"        "survival"      "tcltk"
#> [381] "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/