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 22.04.5 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.4  xfun_0.49
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9001   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_1.0.1   Rcpp_1.0.13-1    RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>  [1] "betaNB"        "rProject"      "abind"
#>  [4] "arm"           "arrow"         "ash"
#>  [7] "AsioHeaders"   "askpass"       "assertthat"
#> [10] "backports"     "base64enc"     "betaDelta"
#> [13] "betaMC"        "betaNB"        "betaSandwich"
#> [16] "BH"            "bibtex"        "BiocManager"
```

```
#>  [19] "bit"         "bit64"              "bitops"
#>  [22] "blob"        "brew"               "brio"
#>  [25] "broom"       "bslib"              "cachem"
#>  [28] "callr"       "car"                "caracas"
#>  [31] "carData"     "cellranger"         "cffr"
#>  [34] "checkmate"   "cli"                "clipr"
#>  [37] "clock"       "clusterGeneration"  "coda"
#>  [40] "cOde"        "collections"        "colorspace"
#>  [43] "commonmark"  "conflicted"         "corpcor"
#>  [46] "covr"        "cowplot"            "cpp11"
#>  [49] "crayon"      "credentials"        "crosstalk"
#>  [52] "cTMed"       "ctsem"              "curl"
#>  [55] "cyclocomp"   "data.table"         "DBI"
#>  [58] "dbplyr"      "Deriv"              "desc"
#>  [61] "deSolve"     "devtools"           "diagram"
#>  [64] "dials"       "DiceDesign"         "diffobj"
#>  [67] "digest"      "distributional"     "distro"
#>  [70] "doBy"        "docopt"             "doFuture"
#>  [73] "downlit"     "dplyr"              "DT"
#>  [76] "dtplyr"      "duckdb"             "dynr"
#>  [79] "dynUtils"    "ellipse"            "ellipsis"
#>  [82] "evaluate"    "expm"               "fansi"
#>  [85] "farver"      "fastDummies"        "fastmap"
#>  [88] "fclust"      "fda"                "fdrtool"
#>  [91] "fds"         "fitCTVARMx"         "fitDTVARMx"
#>  [94] "FNN"         "fontawesome"        "forcats"
#>  [97] "foreach"     "Formula"            "fs"
```

```
#> [100] "fst"            "fstcore"         "furrr"
#> [103] "future"         "future.apply"    "gargle"
#> [106] "generics"       "gert"            "ggplot2"
#> [109] "ggrepel"        "gh"              "gitcreds"
#> [112] "glasso"         "glmnet"          "globals"
#> [115] "glue"           "googledrive"     "googlesheets4"
#> [118] "gower"          "GPArotation"     "GPfit"
#> [121] "graphicalVAR"   "gridExtra"       "gsubfn"
#> [124] "gtable"         "gtools"          "hardhat"
#> [127] "haven"          "hdrcde"          "here"
#> [130] "highr"          "Hmisc"           "hms"
#> [133] "htmlTable"      "htmltools"       "htmlwidgets"
#> [136] "httpgd"         "httpuv"          "httr"
#> [139] "httr2"          "ids"             "ifaTools"
#> [142] "igraph"         "infer"           "ini"
#> [145] "inline"         "ipred"           "isoband"
#> [148] "iterators"      "jomo"            "jpeg"
#> [151] "jquerylib"      "jsonlite"        "jsonvalidate"
#> [154] "kernlab"        "knitr"           "ks"
#> [157] "labeling"       "Lahman"          "languageserver"
#> [160] "later"          "latex2exp"       "lava"
#> [163] "lavaan"         "lazyeval"        "lhs"
#> [166] "lifecycle"      "lintr"           "listenv"
#> [169] "littler"        "lme4"            "locfit"
#> [172] "longMI"         "loo"             "lubridate"
#> [175] "magick"         "magrittr"        "markdown"
#> [178] "MatrixModels"   "matrixStats"     "mclust"
```

```
#> [181] "memoise"          "metaSEM"          "metaVAR"
#> [184] "mice"             "microbenchmark"   "mime"
#> [187] "miniUI"           "minqa"            "mitml"
#> [190] "mize"             "mlVAR"            "mnormt"
#> [193] "modeldata"        "modelenv"         "modelr"
#> [196] "MplusAutomation"  "multicool"        "munsell"
#> [199] "mvtnorm"          "nloptr"           "numDeriv"
#> [202] "nycflights13"     "OpenMx"           "openssl"
#> [205] "ordinal"          "pan"              "pander"
#> [208] "parallelly"       "parsnip"          "patchwork"
#> [211] "pbapply"          "pbivnorm"         "pbkrtest"
#> [214] "pcaPP"            "pdftools"         "pillar"
#> [217] "pkgbuild"         "pkgconfig"        "pkgdown"
#> [220] "pkgload"          "plogr"            "plyr"
#> [223] "png"              "posterior"        "pracma"
#> [226] "praise"           "prettyunits"      "printr"
#> [229] "processx"         "prodlim"          "profvis"
#> [232] "progress"         "progressr"        "promises"
#> [235] "proto"            "ps"               "psych"
#> [238] "purrr"            "qgraph"           "qpdf"
#> [241] "quadprog"         "quantreg"         "quarto"
#> [244] "QuickJSR"         "R.cache"          "R.methodsS3"
#> [247] "R.oo"             "R.utils"          "R6"
#> [250] "ragg"             "rainbow"          "rappdirs"
#> [253] "rbibutils"        "rcmdcheck"        "RColorBrewer"
#> [256] "Rcpp"             "RcppArmadillo"    "RcppEigen"
#> [259] "RcppGSL"          "RcppParallel"     "RcppTOML"
```

```
#> [262] "RCurl"           "Rdpack"          "readr"
#> [265] "readxl"          "recipes"         "RefManageR"
#> [268] "rematch"         "rematch2"        "remotes"
#> [271] "reprex"          "reshape2"        "reticulate"
#> [274] "rex"             "rhub"            "rjags"
#> [277] "rlang"           "RMariaDB"        "rmarkdown"
#> [280] "roxygen2"        "rpf"             "RPostgres"
#> [283] "rProject"        "rprojroot"       "rsample"
#> [286] "RSQLite"         "rstan"           "rstantools"
#> [289] "rstudioapi"      "rversions"       "rvest"
#> [292] "Ryacas"          "sass"            "scales"
#> [295] "selectr"         "semlbci"         "semmcci"
#> [298] "sessioninfo"     "sfd"             "shape"
#> [301] "shiny"           "simStateSpace"   "slider"
#> [304] "snow"            "snowfall"        "sourcetools"
#> [307] "SparseM"         "SQUAREM"         "StanHeaders"
#> [310] "statmod"         "stringi"         "stringr"
#> [313] "styler"          "symSEM"          "sys"
#> [316] "systemfonts"     "tensorA"         "testthat"
#> [319] "texreg"          "textshaping"     "tibble"
#> [322] "tidymodels"      "tidyr"           "tidyselect"
#> [325] "tidyverse"       "timechange"      "timeDate"
#> [328] "tinytex"         "tune"            "tzdb"
#> [331] "ucminf"          "unigd"           "urlchecker"
#> [334] "usethis"         "utf8"            "uuid"
#> [337] "V8"              "vctrs"           "viridis"
#> [340] "viridisLite"     "vroom"           "waldo"
```

```
#> [343] "warp"           "whisker"         "whoami"
#> [346] "withr"          "workflows"       "workflowsets"
#> [349] "xfun"           "xml2"            "xmlparsedata"
#> [352] "xopen"          "xtable"          "yaml"
#> [355] "yardstick"      "zip"             "base"
#> [358] "boot"           "class"           "cluster"
#> [361] "codetools"      "compiler"        "datasets"
#> [364] "foreign"        "graphics"        "grDevices"
#> [367] "grid"           "KernSmooth"      "lattice"
#> [370] "MASS"           "Matrix"          "methods"
#> [373] "mgcv"           "nlme"            "nnet"
#> [376] "parallel"       "rpart"           "spatial"
#> [379] "splines"        "stats"           "stats4"
#> [382] "survival"       "tcltk"           "tools"
#> [385] "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/