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

Packages

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

```
#>   [1] "metaVAR"         "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. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/