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

Packages

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

#>   [1] "fitDTVARMx"    "metaVAR"       "abind"         "arrow"
#>   [5] "ash"           "AsioHeaders"   "askpass"       "assertthat"
#>   [9] "backports"     "base64enc"     "betaDelta"     "betaMC"
#>  [13] "betaNB"        "betaSandwich"  "BH"            "bibtex"
#>  [17] "BiocManager"   "bit"           "bit64"         "bitops"
#>  [21] "blob"          "brew"          "brio"          "broom"
```

```
#>  [25] "bslib"          "cachem"          "callr"          "car"
#>  [29] "caracas"        "carData"         "cellranger"     "cffr"
#>  [33] "checkmate"      "cli"             "clipr"          "clock"
#>  [37] "coda"           "cOde"            "collections"    "colorspace"
#>  [41] "commonmark"     "conflicted"      "corpcor"        "covr"
#>  [45] "cowplot"        "cpp11"           "crayon"         "credentials"
#>  [49] "crosstalk"      "cTMed"           "ctsem"          "curl"
#>  [53] "cyclocomp"      "data.table"      "DBI"            "dbplyr"
#>  [57] "Deriv"          "desc"            "deSolve"        "devtools"
#>  [61] "diagram"        "dials"           "DiceDesign"     "diffobj"
#>  [65] "digest"         "distributional" "distro"         "doBy"
#>  [69] "docopt"         "doFuture"        "downlit"        "dplyr"
#>  [73] "DT"             "dtplyr"          "duckdb"         "dynr"
#>  [77] "dynUtils"       "ellipse"         "ellipsis"       "evaluate"
#>  [81] "expm"           "fansi"           "farver"         "fastDummies"
#>  [85] "fastmap"        "fclust"          "fda"            "fdrtool"
#>  [89] "fds"            "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"         "mice"            "microbenchmark"  "mime"
#> [181] "miniUI"          "minqa"           "mitml"           "mize"
#> [185] "mnormt"          "modeldata"       "modelenv"        "modelr"
#> [189] "MplusAutomation" "multicool"       "munsell"         "mvtnorm"
#> [193] "nloptr"          "numDeriv"        "nycflights13"    "OpenMx"
#> [197] "openssl"         "ordinal"         "pan"             "pander"
#> [201] "parallelly"      "parsnip"         "patchwork"       "pbapply"
#> [205] "pbivnorm"        "pbkrtest"        "pcaPP"           "pdftools"
#> [209] "pillar"          "pkgbuild"        "pkgconfig"       "pkgdown"
#> [213] "pkgload"         "plogr"           "plyr"            "png"
#> [217] "posterior"       "pracma"          "praise"          "prettyunits"
#> [221] "printr"          "processx"        "prodlim"         "profvis"
#> [225] "progress"        "progressr"       "promises"        "proto"
#> [229] "ps"              "psych"           "purrr"           "qgraph"
#> [233] "qpdf"            "quadprog"        "quantreg"        "quarto"
#> [237] "QuickJSR"        "R.cache"         "R.methodsS3"     "R.oo"
```

```
#> [241] "R.utils"        "R6"             "ragg"           "rainbow"
#> [245] "rappdirs"       "rbibutils"      "rcmdcheck"      "RColorBrewer"
#> [249] "Rcpp"           "RcppArmadillo"  "RcppEigen"      "RcppGSL"
#> [253] "RcppParallel"   "RcppTOML"       "RCurl"          "Rdpack"
#> [257] "readr"          "readxl"         "recipes"        "RefManageR"
#> [261] "rematch"        "rematch2"       "remotes"        "reprex"
#> [265] "reshape2"       "reticulate"     "rex"            "rhub"
#> [269] "rlang"          "RMariaDB"       "rmarkdown"      "roxygen2"
#> [273] "rpf"            "RPostgres"      "rProject"       "rprojroot"
#> [277] "rsample"        "RSQLite"        "rstan"          "rstantools"
#> [281] "rstudioapi"     "rversions"      "rvest"          "Ryacas"
#> [285] "sass"           "scales"         "selectr"        "semlbci"
#> [289] "semmcci"        "sessioninfo"    "shape"          "shiny"
#> [293] "simStateSpace"  "slider"         "snow"           "snowfall"
#> [297] "sourcetools"    "SparseM"        "SQUAREM"        "StanHeaders"
#> [301] "statmod"        "stringi"        "stringr"        "styler"
#> [305] "symSEM"         "sys"            "systemfonts"    "tensorA"
#> [309] "testthat"       "texreg"         "textshaping"    "tibble"
#> [313] "tidymodels"     "tidyr"          "tidyselect"     "tidyverse"
#> [317] "timechange"     "timeDate"       "tinytex"        "tune"
#> [321] "tzdb"           "ucminf"         "unigd"          "urlchecker"
#> [325] "usethis"        "utf8"           "uuid"           "V8"
#> [329] "vctrs"          "viridis"        "viridisLite"    "vroom"
#> [333] "waldo"          "warp"           "whisker"        "whoami"
#> [337] "withr"          "workflows"      "workflowsets"   "xfun"
#> [341] "xml2"           "xmlparsedata"   "xopen"          "xtable"
#> [345] "yaml"           "yardstick"      "zip"            "base"
```

```
#> [349] "boot"        "class"      "cluster"      "codetools"
#> [353] "compiler"    "datasets"   "foreign"      "graphics"
#> [357] "grDevices"   "grid"       "KernSmooth"   "lattice"
#> [361] "MASS"        "Matrix"     "methods"      "mgcv"
#> [365] "nlme"        "nnet"       "parallel"     "rpart"
#> [369] "spatial"     "splines"    "stats"        "stats4"
#> [373] "survival"    "tcltk"      "tools"        "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/