Session Info

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Session

```r
sessionInfo()

#> R version 4.5.0 (2025-04-11)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.2 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-r0.3.26.so;  LAPACK version 3.12.
#>
#> 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_0.0.18
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.52
#>  [5] magrittr_2.0.3   glue_1.8.0        stringr_1.5.1    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.8
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.0   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.5.0
#> [21] evaluate_1.0.3   Rcpp_1.0.14      RefManageR_1.4.0 rlang_1.1.6
#> [25] jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

#>   [1] "fitDTVARMx"     "metaVAR"        "simStateSpace"
#>   [4] "abind"          "Amelia"         "arm"
#>   [7] "arrow"          "ash"            "askpass"
#>  [10] "assertthat"     "backports"      "base64enc"
#>  [13] "betaDelta"      "betaMC"         "betaNB"
#>  [16] "betaSandwich"   "BH"             "bibtex"
```

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

```
#> [100] "fs"              "fst"             "fstcore"
#> [103] "furrr"           "future"          "future.apply"
#> [106] "gargle"          "generics"        "gert"
#> [109] "ggplot2"         "ggrepel"         "gh"
#> [112] "gitcreds"        "glasso"          "glmnet"
#> [115] "globals"         "glue"            "googledrive"
#> [118] "googlesheets4"   "gower"           "GPArotation"
#> [121] "GPfit"           "graphicalVAR"    "gridExtra"
#> [124] "gsubfn"          "gtable"          "gtools"
#> [127] "hardhat"         "haven"           "hdrcde"
#> [130] "here"            "highr"           "Hmisc"
#> [133] "hms"             "htmlTable"       "htmltools"
#> [136] "htmlwidgets"     "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] "litedown"        "littler"         "lme4"
#> [172] "locfit"          "longMI"          "loo"
#> [175] "lubridate"       "magick"          "magrittr"
#> [178] "markdown"        "MatrixModels"    "matrixStats"
```

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

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

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