Session Info

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Session

```
sessionInfo()

#> R version 4.5.2 (2025-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 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_0.0.23
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.54
#>  [5] magrittr_2.0.4   glue_1.8.0        stringr_1.6.0    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.4  xml2_1.5.1
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.0       RefManageR_1.4.0 rlang_1.1.6
```

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#> [25] jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

```
#>   [1] "fitDTVARMxID"       "httr2"           "rProject"
#>   [4] "shiny"              "yaml"            "abind"
#>   [7] "Amelia"             "arm"             "arrow"
#>  [10] "ash"                "askpass"         "assertthat"
#>  [13] "backports"          "base64enc"       "betaDelta"
#>  [16] "betaMC"             "betaNB"          "betaSandwich"
#>  [19] "BH"                 "bibtex"          "BiocManager"
#>  [22] "BiocVersion"        "bit"             "bit64"
#>  [25] "bitops"             "blob"            "bootStateSpace"
#>  [28] "brew"               "brio"            "broom"
#>  [31] "bslib"              "cachem"          "callr"
#>  [34] "car"                "caracas"         "carData"
#>  [37] "cellranger"         "cffr"            "checkmate"
#>  [40] "cli"                "clipr"           "clock"
#>  [43] "clusterGeneration"  "coda"            "cOde"
#>  [46] "collections"        "colorspace"      "commonmark"
#>  [49] "conflicted"         "corpcor"         "covr"
#>  [52] "cowplot"            "cpp11"           "crayon"
#>  [55] "credentials"        "crosstalk"       "cTMed"
#>  [58] "ctsem"              "curl"            "data.table"
#>  [61] "DBI"                "dbplyr"          "Deriv"
#>  [64] "desc"               "deSolve"         "devtools"
#>  [67] "diagram"            "dials"           "DiceDesign"
#>  [70] "diffobj"            "digest"          "distributional"
#>  [73] "distro"             "doBy"            "docopt"
#>  [76] "downlit"            "dplyr"           "DT"
#>  [79] "dtplyr"             "duckdb"          "dynr"
#>  [82] "dynUtils"           "ellipse"         "ellipsis"
#>  [85] "evaluate"           "expm"            "fansi"
#>  [88] "farver"             "fastDummies"     "fastmap"
#>  [91] "fclust"             "fda"             "fdrtool"
#>  [94] "fds"                "fitDTVARMxID"    "FNN"
#>  [97] "fontawesome"        "forcats"         "foreach"
#> [100] "forecast"           "Formula"         "fracdiff"
#> [103] "fs"                 "fst"             "fstcore"
#> [106] "furrr"              "future"          "future.apply"
#> [109] "gargle"             "generics"        "gert"
```

```
#> [112] "ggplot2"        "ggrepel"        "gh"
#> [115] "gitcreds"       "glasso"         "glmnet"
#> [118] "globals"        "glue"           "googledrive"
#> [121] "googlesheets4"  "gower"          "GPArotation"
#> [124] "GPfit"          "graphicalVAR"   "gridExtra"
#> [127] "gsubfn"         "gtable"         "gtools"
#> [130] "hardhat"        "haven"          "hdrcde"
#> [133] "here"           "highr"          "Hmisc"
#> [136] "hms"            "htmlTable"      "htmltools"
#> [139] "htmlwidgets"    "httpuv"         "httr"
#> [142] "httr2"          "ids"            "ifaTools"
#> [145] "igraph"         "infer"          "ini"
#> [148] "inline"         "ipred"          "isoband"
#> [151] "iterators"      "jomo"           "jpeg"
#> [154] "jquerylib"      "jsonlite"       "jsonvalidate"
#> [157] "kernlab"        "knitr"          "ks"
#> [160] "labeling"       "Lahman"         "languageserver"
#> [163] "later"          "latex2exp"      "lava"
#> [166] "lavaan"         "lazyeval"       "lhs"
#> [169] "lifecycle"      "lintr"          "listenv"
#> [172] "litedown"       "littler"        "lme4"
#> [175] "lmtest"         "locfit"         "longMI"
#> [178] "loo"            "lubridate"      "magick"
#> [181] "magrittr"       "markdown"       "MatrixModels"
#> [184] "matrixStats"    "mclust"         "memoise"
#> [187] "metaSEM"        "metaVAR"        "mice"
#> [190] "microbenchmark" "mime"           "miniUI"
#> [193] "minqa"          "mitml"          "mize"
#> [196] "mlVAR"          "mnormt"         "modeldata"
#> [199] "modelenv"       "modelr"         "MplusAutomation"
#> [202] "multicool"      "mvtnorm"        "nloptr"
#> [205] "numDeriv"       "nycflights13"   "OpenMx"
#> [208] "openssl"        "ordinal"        "otel"
#> [211] "pan"            "pander"         "parallelly"
#> [214] "parsnip"        "patchwork"      "pbapply"
#> [217] "pbivnorm"       "pbkrtest"       "pcaPP"
#> [220] "pdftools"       "pillar"         "pkgbuild"
#> [223] "pkgconfig"      "pkgdown"        "pkgload"
#> [226] "plogr"          "plyr"           "png"
#> [229] "posterior"      "pracma"         "praise"
#> [232] "prettyunits"    "printr"         "processx"
#> [235] "prodlim"        "profvis"        "progress"
#> [238] "progressr"      "promises"       "proto"
#> [241] "ps"             "psych"          "purrr"
#> [244] "qgraph"         "qpdf"           "quadprog"
```

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#> [247] "quantmod"        "quantreg"        "quarto"
#> [250] "QuickJSR"        "R.cache"         "R.methodsS3"
#> [253] "R.oo"            "R.utils"         "R2jags"
#> [256] "R2WinBUGS"       "R6"              "ragg"
#> [259] "rainbow"         "rappdirs"        "rbibutils"
#> [262] "rcmdcheck"       "RColorBrewer"    "Rcpp"
#> [265] "RcppArmadillo"   "RcppEigen"       "RcppGSL"
#> [268] "RcppParallel"    "RcppTOML"        "RCurl"
#> [271] "Rdpack"          "readr"           "readxl"
#> [274] "recipes"         "RefManageR"      "reformulas"
#> [277] "rematch"         "rematch2"        "remotes"
#> [280] "reprex"          "reshape2"        "reticulate"
#> [283] "rex"             "rhdf5"           "rhdf5filters"
#> [286] "Rhdf5lib"        "rhub"            "rjags"
#> [289] "rlang"           "RMariaDB"        "rmarkdown"
#> [292] "roxygen2"        "rpf"             "RPostgres"
#> [295] "rProject"        "rprojroot"       "rsample"
#> [298] "RSQLite"         "rstan"           "rstantools"
#> [301] "rstudioapi"      "rversions"       "rvest"
#> [304] "Ryacas"          "S7"              "sass"
#> [307] "scales"          "selectr"         "semlbci"
#> [310] "semmcci"         "sessioninfo"     "sfd"
#> [313] "shape"           "shiny"           "simStateSpace"
#> [316] "slider"          "snow"            "snowfall"
#> [319] "sourcetools"     "SparseM"         "sparsevctrs"
#> [322] "SQUAREM"         "StanHeaders"     "stringi"
#> [325] "stringr"         "styler"          "symSEM"
#> [328] "sys"             "systemfonts"     "tailor"
#> [331] "tensorA"         "testthat"        "texreg"
#> [334] "textshaping"     "tibble"          "tidymodels"
#> [337] "tidyr"           "tidyselect"      "tidyverse"
#> [340] "timechange"      "timeDate"        "tinytex"
#> [343] "tseries"         "TTR"             "tune"
#> [346] "tzdb"            "ucminf"          "urca"
#> [349] "urlchecker"      "usethis"         "utf8"
#> [352] "uuid"            "V8"              "vctrs"
#> [355] "viridisLite"     "vroom"           "waldo"
#> [358] "warp"            "whisker"         "whoami"
#> [361] "withr"           "workflows"       "workflowsets"
#> [364] "xfun"            "xml2"            "xmlparsedata"
#> [367] "xopen"           "xtable"          "xts"
#> [370] "yaml"            "yardstick"       "zip"
#> [373] "zoo"             "base"            "boot"
#> [376] "class"           "cluster"         "codetools"
#> [379] "compiler"        "datasets"        "foreign"
```

```
#> [382] "graphics"        "grDevices"      "grid"
#> [385] "KernSmooth"      "lattice"        "MASS"
#> [388] "Matrix"          "methods"        "mgcv"
#> [391] "nlme"            "nnet"           "parallel"
#> [394] "rpart"           "spatial"        "splines"
#> [397] "stats"           "stats4"         "survival"
#> [400] "tcltk"           "tools"          "utils"
```

References

R Core Team. (2025). *R: A language and environment for statistical computing.* R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/