Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.5.1 (2025-06-13)
#> 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_0.0.21
#>
#> 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_1.5.2    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.4  xml2_1.4.1
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   Rcpp_1.1.0       RefManageR_1.4.0 rlang_1.1.6
```

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

Packages

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

```
#>   [1] "fitDTVARMxID"       "rProject"         "xfun"
#>   [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] "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"                "fitDTVARMxID"     "FNN"
#>  [94] "fontawesome"        "forcats"          "foreach"
#>  [97] "Formula"            "fs"               "fst"
#> [100] "fstcore"            "furrr"            "future"
#> [103] "future.apply"       "gargle"           "generics"
#> [106] "gert"               "ggplot2"          "ggrepel"
#> [109] "gh"                 "gitcreds"         "glasso"
```

```
#> [112] "glmnet"          "globals"         "glue"
#> [115] "googledrive"     "googlesheets4"   "gower"
#> [118] "GPArotation"     "GPfit"           "graphicalVAR"
#> [121] "gridExtra"       "gsubfn"          "gtable"
#> [124] "gtools"          "hardhat"         "haven"
#> [127] "hdrcde"          "here"            "highr"
#> [130] "Hmisc"           "hms"             "htmlTable"
#> [133] "htmltools"       "htmlwidgets"     "httpuv"
#> [136] "httr"            "httr2"           "ids"
#> [139] "ifaTools"        "igraph"          "infer"
#> [142] "ini"             "inline"          "ipred"
#> [145] "isoband"         "iterators"       "jomo"
#> [148] "jpeg"            "jquerylib"       "jsonlite"
#> [151] "jsonvalidate"    "kernlab"         "knitr"
#> [154] "ks"              "labeling"        "Lahman"
#> [157] "languageserver"  "later"           "latex2exp"
#> [160] "lava"            "lavaan"          "lazyeval"
#> [163] "lhs"             "lifecycle"       "lintr"
#> [166] "listenv"         "litedown"        "littler"
#> [169] "lme4"            "locfit"          "longMI"
#> [172] "loo"             "lubridate"       "magick"
#> [175] "magrittr"        "markdown"        "MatrixModels"
#> [178] "matrixStats"     "mclust"          "memoise"
#> [181] "metaSEM"         "metaVAR"         "mice"
#> [184] "microbenchmark"  "mime"            "miniUI"
#> [187] "minqa"           "mitml"           "mize"
#> [190] "mlVAR"           "mnormt"          "modeldata"
#> [193] "modelenv"        "modelr"          "MplusAutomation"
#> [196] "multicool"       "mvtnorm"         "nloptr"
#> [199] "numDeriv"        "nycflights13"    "OpenMx"
#> [202] "openssl"         "ordinal"         "otel"
#> [205] "pan"             "pander"          "parallelly"
#> [208] "parsnip"         "patchwork"       "pbapply"
#> [211] "pbivnorm"        "pbkrtest"        "pcaPP"
#> [214] "pdftools"        "pillar"          "pkgbuild"
#> [217] "pkgconfig"       "pkgdown"         "pkgload"
#> [220] "plogr"           "plyr"            "png"
#> [223] "posterior"       "pracma"          "praise"
#> [226] "prettyunits"     "printr"          "processx"
#> [229] "prodlim"         "profvis"         "progress"
#> [232] "progressr"       "promises"        "proto"
#> [235] "ps"              "psych"           "purrr"
#> [238] "qgraph"          "qpdf"            "quadprog"
#> [241] "quantreg"        "quarto"          "QuickJSR"
#> [244] "R.cache"         "R.methodsS3"     "R.oo"
```

```
#> [247] "R.utils"        "R2jags"          "R2WinBUGS"
#> [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] "S7"             "sass"            "scales"
#> [298] "selectr"        "semlbci"         "semmcci"
#> [301] "sessioninfo"    "sfd"             "shape"
#> [304] "shiny"          "simStateSpace"   "slider"
#> [307] "snow"           "snowfall"        "sourcetools"
#> [310] "SparseM"        "sparsevctrs"     "SQUAREM"
#> [313] "StanHeaders"    "stringi"         "stringr"
#> [316] "styler"         "symSEM"          "sys"
#> [319] "systemfonts"    "tailor"          "tensorA"
#> [322] "testthat"       "texreg"          "textshaping"
#> [325] "tibble"         "tidymodels"      "tidyr"
#> [328] "tidyselect"     "tidyverse"       "timechange"
#> [331] "timeDate"       "tinytex"         "tune"
#> [334] "tzdb"           "ucminf"          "urlchecker"
#> [337] "usethis"        "utf8"            "uuid"
#> [340] "V8"             "vctrs"           "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. (2025). *R: A language and environment for statistical computing.* R Foundation for
    Statistical Computing. Vienna, Austria. https://www.R-project.org/