Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.4.3 (2025-02-28)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.1 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_0.51
#>  [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_3.6.4.9000   bibtex_0.5.1     compiler_4.4.3   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.3
#> [21] evaluate_1.0.3   Rcpp_1.0.14      RefManageR_1.4.0 rlang_1.1.5
```

```
#> [25] jsonlite_1.9.1   stringi_1.8.4
```

Packages

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

```
#>   [1] "simStateSpace"      "abind"              "Amelia"
#>   [4] "arm"                "arrow"              "ash"
#>   [7] "AsioHeaders"        "askpass"            "assertthat"
#>  [10] "backports"          "base64enc"          "betaDelta"
#>  [13] "betaMC"             "betaNB"             "betaSandwich"
#>  [16] "BH"                 "bibtex"             "BiocManager"
#>  [19] "bit"                "bit64"              "bitops"
#>  [22] "blob"               "bootStateSpace"     "brew"
#>  [25] "brio"               "broom"              "bslib"
#>  [28] "cachem"             "callr"              "car"
#>  [31] "caracas"            "carData"            "cellranger"
#>  [34] "cffr"               "checkmate"          "cli"
#>  [37] "clipr"              "clock"              "clusterGeneration"
#>  [40] "coda"               "cOde"               "collections"
#>  [43] "colorspace"         "commonmark"         "conflicted"
#>  [46] "corpcor"            "covr"               "cowplot"
#>  [49] "cpp11"              "crayon"             "credentials"
#>  [52] "crosstalk"          "cTMed"              "ctsem"
#>  [55] "curl"               "data.table"         "DBI"
#>  [58] "dbplyr"             "Deriv"              "desc"
#>  [61] "deSolve"            "devtools"           "diagram"
#>  [64] "dials"              "DiceDesign"         "diffobj"
#>  [67] "digest"             "distributional"     "distro"
#>  [70] "doBy"               "docopt"             "doFuture"
#>  [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"                "fitCTVARMx"         "fitDTVARMx"
#>  [94] "FNN"                "fontawesome"        "forcats"
#>  [97] "foreach"            "Formula"            "fs"
#> [100] "fst"                "fstcore"            "furrr"
#> [103] "future"             "future.apply"       "gargle"
#> [106] "generics"           "gert"               "ggplot2"
#> [109] "ggrepel"            "gh"                 "gitcreds"
```

```
#> [112] "glasso"          "glmnet"             "globals"
#> [115] "glue"            "googledrive"        "googlesheets4"
#> [118] "gower"           "GPArotation"        "GPfit"
#> [121] "graphicalVAR"    "gridExtra"          "gsubfn"
#> [124] "gtable"          "gtools"             "hardhat"
#> [127] "haven"           "hdrcde"             "here"
#> [130] "highr"           "Hmisc"              "hms"
#> [133] "htmlTable"       "htmltools"          "htmlwidgets"
#> [136] "httpgd"          "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"           "unigd"           "urlchecker"
#> [337] "usethis"          "utf8"            "uuid"
#> [340] "V8"               "vctrs"           "viridis"
#> [343] "viridisLite"      "vroom"           "waldo"
#> [346] "warp"             "whisker"         "whoami"
#> [349] "withr"            "workflows"       "workflowsets"
#> [352] "xfun"             "xml2"            "xmlparsedata"
#> [355] "xopen"            "xtable"          "yaml"
#> [358] "yardstick"        "zip"             "base"
#> [361] "boot"             "class"           "cluster"
#> [364] "codetools"        "compiler"        "datasets"
#> [367] "foreign"          "graphics"        "grDevices"
#> [370] "grid"             "KernSmooth"      "lattice"
#> [373] "MASS"             "Matrix"          "methods"
#> [376] "mgcv"             "nlme"            "nnet"
#> [379] "parallel"         "rpart"           "spatial"
```

```
#> [382] "splines"          "stats"             "stats4"
#> [385] "survival"         "tcltk"             "tools"
#> [388] "utils"
```

References

R Core Team. (2024). *R: A language and environment for statistical computing.* R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/