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

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

```
#>   [1] "simStateSpace"     "abind"             "Amelia"
#>   [4] "arm"               "arrow"             "ash"
#>   [7] "askpass"           "assertthat"        "backports"
#>  [10] "base64enc"         "betaDelta"         "betaMC"
#>  [13] "betaNB"            "betaSandwich"      "BH"
#>  [16] "bibtex"            "BiocManager"       "bit"
#>  [19] "bit64"             "bitops"            "blob"
#>  [22] "bootStateSpace"    "brew"              "brio"
#>  [25] "broom"             "bslib"             "cachem"
#>  [28] "callr"             "car"               "caracas"
#>  [31] "carData"           "cellranger"        "cffr"
#>  [34] "checkmate"         "cli"               "clipr"
#>  [37] "clock"             "clusterGeneration" "coda"
#>  [40] "cOde"              "collections"       "colorspace"
#>  [43] "commonmark"        "conflicted"        "corpcor"
#>  [46] "covr"              "cowplot"           "cpp11"
#>  [49] "crayon"            "credentials"       "crosstalk"
#>  [52] "cTMed"             "ctsem"             "curl"
#>  [55] "data.table"        "DBI"               "dbplyr"
#>  [58] "Deriv"             "desc"              "deSolve"
#>  [61] "devtools"          "diagram"           "dials"
#>  [64] "DiceDesign"        "diffobj"           "digest"
#>  [67] "distributional"    "distro"            "doBy"
#>  [70] "docopt"            "doFuture"          "downlit"
#>  [73] "dplyr"             "DT"                "dtplyr"
#>  [76] "duckdb"            "dynr"              "dynUtils"
#>  [79] "ellipse"           "ellipsis"          "evaluate"
#>  [82] "expm"              "fansi"             "farver"
#>  [85] "fastDummies"       "fastmap"           "fclust"
#>  [88] "fda"               "fdrtool"           "fds"
#>  [91] "fitCTVARMx"        "fitDTVARMx"        "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"       "munsell"          "mvtnorm"
#> [199] "nloptr"          "numDeriv"         "nycflights13"
#> [202] "OpenMx"          "openssl"          "ordinal"
#> [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"         "R6"             "ragg"
#> [250] "rainbow"         "rappdirs"       "rbibutils"
#> [253] "rcmdcheck"       "RColorBrewer"   "Rcpp"
#> [256] "RcppArmadillo"   "RcppEigen"      "RcppGSL"
#> [259] "RcppParallel"    "RcppTOML"       "RCurl"
#> [262] "Rdpack"          "readr"          "readxl"
#> [265] "recipes"         "RefManageR"     "reformulas"
#> [268] "rematch"         "rematch2"       "remotes"
#> [271] "reprex"          "reshape2"       "reticulate"
#> [274] "rex"             "rhub"           "rjags"
#> [277] "rlang"           "RMariaDB"       "rmarkdown"
#> [280] "roxygen2"        "rpf"            "RPostgres"
#> [283] "rProject"        "rprojroot"      "rsample"
#> [286] "RSQLite"         "rstan"          "rstantools"
#> [289] "rstudioapi"      "rversions"      "rvest"
#> [292] "Ryacas"          "sass"           "scales"
#> [295] "selectr"         "semlbci"        "semmcci"
#> [298] "sessioninfo"     "sfd"            "shape"
#> [301] "shiny"           "simStateSpace"  "slider"
#> [304] "snow"            "snowfall"       "sourcetools"
#> [307] "SparseM"         "sparsevctrs"    "SQUAREM"
#> [310] "StanHeaders"     "statmod"        "stringi"
#> [313] "stringr"         "styler"         "symSEM"
#> [316] "sys"             "systemfonts"    "tensorA"
#> [319] "testthat"        "texreg"         "textshaping"
#> [322] "tibble"          "tidymodels"     "tidyr"
#> [325] "tidyselect"      "tidyverse"      "timechange"
#> [328] "timeDate"        "tinytex"        "tune"
#> [331] "tzdb"            "ucminf"         "urlchecker"
#> [334] "usethis"         "utf8"           "uuid"
#> [337] "V8"              "vctrs"          "viridis"
#> [340] "viridisLite"     "vroom"          "waldo"
#> [343] "warp"            "whisker"        "whoami"
#> [346] "withr"           "workflows"      "workflowsets"
#> [349] "xfun"            "xml2"           "xmlparsedata"
#> [352] "xopen"           "xtable"         "yaml"
#> [355] "yardstick"       "zip"            "base"
#> [358] "boot"            "class"          "cluster"
#> [361] "codetools"       "compiler"       "datasets"
#> [364] "foreign"         "graphics"       "grDevices"
#> [367] "grid"            "KernSmooth"     "lattice"
#> [370] "MASS"            "Matrix"         "methods"
#> [373] "mgcv"            "nlme"           "nnet"
#> [376] "parallel"        "rpart"          "spatial"
#> [379] "splines"         "stats"          "stats4"
```

```
#> [382] "survival"           "tcltk"              "tools"
#> [385] "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/