Session Info

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Session

```r
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_0.55
#>  [5] magrittr_2.0.4   glue_1.8.0        stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.5  xml2_1.5.2
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.1       RefManageR_1.4.0 otel_0.2.0
```

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#> [25] rlang_1.1.7       jsonlite_2.0.0    stringi_1.8.7
```

Packages

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

#>   [1] "cffr"            "devtools"          "fitDTVARMxID"
#>   [4] "gert"            "rappdirs"          "rProject"
#>   [7] "rstudioapi"      "testthat"          "tibble"
#>  [10] "tinytex"         "vctrs"             "xml2"
#>  [13] "abind"           "Amelia"            "arm"
#>  [16] "arrow"           "ash"               "AsioHeaders"
#>  [19] "askpass"         "assertthat"        "backports"
#>  [22] "base64enc"       "betaDelta"         "betaMC"
#>  [25] "betaNB"          "betaSandwich"      "BH"
#>  [28] "bibtex"          "BiocManager"       "BiocVersion"
#>  [31] "bit"             "bit64"             "bitops"
#>  [34] "blob"            "bootStateSpace"    "brew"
#>  [37] "brio"            "broom"             "bslib"
#>  [40] "cachem"          "callr"             "car"
#>  [43] "caracas"         "carData"           "cellranger"
#>  [46] "cffr"            "checkmate"         "cli"
#>  [49] "clipr"           "clock"             "clusterGeneration"
#>  [52] "coda"            "cOde"              "collections"
#>  [55] "colorspace"      "commonmark"        "conflicted"
#>  [58] "corpcor"         "covr"              "cowplot"
#>  [61] "cpp11"           "crayon"            "credentials"
#>  [64] "crosstalk"       "cTMed"             "ctsem"
#>  [67] "curl"            "data.table"        "DBI"
#>  [70] "dbplyr"          "Deriv"             "desc"
#>  [73] "deSolve"         "devtools"          "diagram"
#>  [76] "dials"           "DiceDesign"        "diffobj"
#>  [79] "digest"          "distributional"    "distro"
#>  [82] "doBy"            "docopt"            "downlit"
#>  [85] "dplyr"           "DT"                "dtplyr"
#>  [88] "duckdb"          "dynr"              "dynUtils"
#>  [91] "ellipse"         "ellipsis"          "evaluate"
#>  [94] "expm"            "fansi"             "farver"
#>  [97] "fastDummies"     "fastmap"           "fclust"
#> [100] "fda"             "fdrtool"           "fds"
#> [103] "fitDTVARMxID"    "FNN"               "fontawesome"
#> [106] "forcats"         "foreach"           "forecast"
#> [109] "Formula"         "fracdiff"          "fs"
```

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

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

```
#> [382] "zip"           "zoo"          "base"
#> [385] "boot"          "class"        "cluster"
#> [388] "codetools"     "compiler"     "datasets"
#> [391] "foreign"       "graphics"     "grDevices"
#> [394] "grid"          "KernSmooth"   "lattice"
#> [397] "MASS"          "Matrix"       "methods"
#> [400] "mgcv"          "nlme"         "nnet"
#> [403] "parallel"      "rpart"        "spatial"
#> [406] "splines"       "stats"        "stats4"
#> [409] "survival"      "tcltk"        "tools"
#> [412] "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/