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_0.56
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.4.0 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
#> [25] rlang_1.1.7      jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

#>   [1] "cTMed"         "abind"         "Amelia"
#>   [4] "arm"           "arrow"         "ash"
#>   [7] "AsioHeaders"   "askpass"       "assertthat"
#>  [10] "backports"     "base64enc"     "betaDelta"
#>  [13] "betaMC"        "betaNB"        "betaSandwich"
#>  [16] "BH"            "bibtex"        "BiocManager"
```

```
#>  [19] "BiocVersion"        "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] "forecast"           "Formula"         "fracdiff"
```

```
#> [100] "fs"               "fst"             "fstcore"
#> [103] "furrr"            "future"          "future.apply"
#> [106] "gargle"           "generics"        "gert"
#> [109] "ggplot2"          "ggrepel"         "gh"
#> [112] "gitcreds"         "glasso"          "glmnet"
#> [115] "globals"          "glue"            "googledrive"
#> [118] "googlesheets4"    "gower"           "GPArotation"
#> [121] "GPfit"            "graphicalVAR"    "gridExtra"
#> [124] "gsubfn"           "gtable"          "gtools"
#> [127] "hardhat"          "haven"           "hdrcde"
#> [130] "here"             "highr"           "Hmisc"
#> [133] "hms"              "htmlTable"       "htmltools"
#> [136] "htmlwidgets"      "httpgd"          "httpuv"
#> [139] "httr"             "httr2"           "ids"
#> [142] "ifaTools"         "igraph"          "infer"
#> [145] "ini"              "inline"          "ipred"
#> [148] "isoband"          "iterators"       "jomo"
#> [151] "jpeg"             "jquerylib"       "jsonlite"
#> [154] "jsonvalidate"     "kernlab"         "knitr"
#> [157] "ks"               "labeling"        "Lahman"
#> [160] "languageserver"   "later"           "latex2exp"
#> [163] "lava"             "lavaan"          "lazyeval"
#> [166] "lhs"              "lifecycle"       "lintr"
#> [169] "listenv"          "litedown"        "littler"
#> [172] "lme4"             "lmtest"          "locfit"
#> [175] "longMI"           "loo"             "lubridate"
#> [178] "magick"           "magrittr"        "markdown"
```

```
#> [181] "MatrixModels"    "matrixStats"        "mclust"
#> [184] "memoise"         "metaDyn"            "metaSEM"
#> [187] "metaVAR"         "mice"               "microbenchmark"
#> [190] "mime"            "miniUI"             "minqa"
#> [193] "mitml"           "mize"               "mlVAR"
#> [196] "mnormt"          "modeldata"          "modelenv"
#> [199] "modelr"          "MplusAutomation"    "multicool"
#> [202] "mvtnorm"         "nloptr"             "numDeriv"
#> [205] "nycflights13"    "OpenMx"             "openssl"
#> [208] "ordinal"         "otel"               "pan"
#> [211] "pander"          "parallelly"         "parsnip"
#> [214] "patchwork"       "pbapply"            "pbivnorm"
#> [217] "pbkrtest"        "pcaPP"              "pdftools"
#> [220] "pillar"          "pkgbuild"           "pkgconfig"
#> [223] "pkgdown"         "pkgload"            "plogr"
#> [226] "plyr"            "png"                "posterior"
#> [229] "pracma"          "praise"             "prettyunits"
#> [232] "printr"          "processx"           "prodlim"
#> [235] "profvis"         "progress"           "progressr"
#> [238] "promises"        "proto"              "ps"
#> [241] "psych"           "purrr"              "qgraph"
#> [244] "qpdf"            "quadprog"           "quantmod"
#> [247] "quantreg"        "quarto"             "QuickJSR"
#> [250] "R.cache"         "R.methodsS3"        "R.oo"
#> [253] "R.utils"         "R2jags"             "R2WinBUGS"
#> [256] "R6"              "ragg"               "rainbow"
#> [259] "rappdirs"        "rbibutils"          "rcmdcheck"
```

```
#> [262] "RColorBrewer"     "Rcpp"              "RcppArmadillo"
#> [265] "RcppEigen"        "RcppGSL"           "RcppParallel"
#> [268] "RcppTOML"         "RCurl"             "Rdpack"
#> [271] "readr"            "readxl"            "recipes"
#> [274] "RefManageR"       "reformulas"        "rematch"
#> [277] "rematch2"         "remotes"           "reprex"
#> [280] "reshape2"         "reticulate"        "rex"
#> [283] "rhdf5"            "rhdf5filters"      "Rhdf5lib"
#> [286] "rhub"             "rjags"             "rlang"
#> [289] "RMariaDB"         "rmarkdown"         "roxygen2"
#> [292] "rpf"              "RPostgres"         "rProject"
#> [295] "rprojroot"        "rsample"           "RSQLite"
#> [298] "rstan"            "rstantools"        "rstudioapi"
#> [301] "rversions"        "rvest"             "Ryacas"
#> [304] "S7"               "sass"              "scales"
#> [307] "selectr"          "semlbci"           "semmcci"
#> [310] "sessioninfo"      "sfd"               "shape"
#> [313] "shiny"            "simStateSpace"     "slider"
#> [316] "snow"             "snowfall"          "sourcetools"
#> [319] "SparseM"          "sparsevctrs"       "SQUAREM"
#> [322] "StanHeaders"      "stringi"           "stringr"
#> [325] "styler"           "symSEM"            "sys"
#> [328] "systemfonts"      "tailor"            "tensorA"
#> [331] "testthat"         "texreg"            "textshaping"
#> [334] "tibble"           "tidymodels"        "tidyr"
#> [337] "tidyselect"       "tidyverse"         "timechange"
#> [340] "timeDate"         "tinytex"           "tseries"
```

```
#> [343] "TTR"           "tune"          "tzdb"
#> [346] "ucminf"        "unigd"         "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/