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_0.0.25
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.5  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_0.5.2     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.8       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] "betaDelta"      "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"                "fitVARMxID"      "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"              "kutils"           "labeling"
#> [160] "Lahman"          "languageserver"   "later"
#> [163] "latex2exp"       "lava"             "lavaan"
#> [166] "lazyeval"        "lhs"              "lifecycle"
#> [169] "lintr"           "lisrelToR"        "listenv"
#> [172] "litedown"        "littler"          "lme4"
#> [175] "lmtest"          "locfit"           "longMI"
#> [178] "loo"             "lubridate"        "magick"
```

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

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

```
#> [343] "tidyselect"     "tidyverse"      "timechange"
#> [346] "timeDate"       "tinytex"        "tune"
#> [349] "tzdb"           "ucminf"         "unigd"
#> [352] "urca"           "urlchecker"     "usethis"
#> [355] "utf8"           "uuid"           "V8"
#> [358] "vctrs"          "viridisLite"    "vroom"
#> [361] "waldo"          "warp"           "whisker"
#> [364] "whoami"         "withr"          "workflows"
#> [367] "workflowsets"   "xfun"           "XML"
#> [370] "xml2"           "xmlparsedata"   "xopen"
#> [373] "xtable"         "yaml"           "yardstick"
#> [376] "zip"            "zoo"            "base"
#> [379] "boot"           "class"          "cluster"
#> [382] "codetools"      "compiler"       "datasets"
#> [385] "foreign"        "graphics"       "grDevices"
#> [388] "grid"           "KernSmooth"     "lattice"
#> [391] "MASS"           "Matrix"         "methods"
#> [394] "mgcv"           "nlme"           "nnet"
#> [397] "parallel"       "rpart"          "spatial"
#> [400] "splines"        "stats"          "stats4"
#> [403] "survival"       "tcltk"          "tools"
#> [406] "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/