Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.5.1 (2025-06-13)
#> 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_0.0.21
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1          lubridate_1.9.4  xfun_0.53
#>  [5] magrittr_2.0.4   glue_1.8.0        stringr_1.5.2    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.4  xml2_1.4.0
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   Rcpp_1.1.0       RefManageR_1.4.0 rlang_1.1.6
```

1

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

Packages

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

```
#>   [1] "credentials"      "distro"             "magrittr"
#>   [4] "pillar"           "rProject"           "simStateSpace"
#>   [7] "stringr"          "abind"              "Amelia"
#>  [10] "arm"              "arrow"              "ash"
#>  [13] "askpass"          "assertthat"         "backports"
#>  [16] "base64enc"        "betaDelta"          "betaMC"
#>  [19] "betaNB"           "betaSandwich"       "BH"
#>  [22] "bibtex"           "BiocManager"        "bit"
#>  [25] "bit64"            "bitops"             "blob"
#>  [28] "bootStateSpace"   "brew"               "brio"
#>  [31] "broom"            "bslib"              "cachem"
#>  [34] "callr"            "car"                "caracas"
#>  [37] "carData"          "cellranger"         "cffr"
#>  [40] "checkmate"        "cli"                "clipr"
#>  [43] "clock"            "clusterGeneration"  "coda"
#>  [46] "cOde"             "collections"        "colorspace"
#>  [49] "commonmark"       "conflicted"         "corpcor"
#>  [52] "covr"             "cowplot"            "cpp11"
#>  [55] "crayon"           "credentials"        "crosstalk"
#>  [58] "cTMed"            "ctsem"              "curl"
#>  [61] "data.table"       "DBI"                "dbplyr"
#>  [64] "Deriv"            "desc"               "deSolve"
#>  [67] "devtools"         "diagram"            "dials"
#>  [70] "DiceDesign"       "diffobj"            "digest"
#>  [73] "distributional"   "distro"             "doBy"
#>  [76] "docopt"           "downlit"            "dplyr"
#>  [79] "DT"               "dtplyr"             "duckdb"
#>  [82] "dynr"             "dynUtils"           "ellipse"
#>  [85] "ellipsis"         "evaluate"           "expm"
#>  [88] "fansi"            "farver"             "fastDummies"
#>  [91] "fastmap"          "fclust"             "fda"
#>  [94] "fdrtool"          "fds"                "fitDTVARMx"
#>  [97] "FNN"              "fontawesome"        "forcats"
#> [100] "foreach"          "Formula"            "fs"
#> [103] "fst"              "fstcore"            "furrr"
#> [106] "future"           "future.apply"       "gargle"
#> [109] "generics"         "gert"               "ggplot2"
```

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

```
#> [247] "R.cache"         "R.methodsS3"     "R.oo"
#> [250] "R.utils"         "R2jags"          "R2WinBUGS"
#> [253] "R6"              "ragg"            "rainbow"
#> [256] "rappdirs"        "rbibutils"       "rcmdcheck"
#> [259] "RColorBrewer"    "Rcpp"            "RcppArmadillo"
#> [262] "RcppEigen"       "RcppGSL"         "RcppParallel"
#> [265] "RcppTOML"        "RCurl"           "Rdpack"
#> [268] "readr"           "readxl"          "recipes"
#> [271] "RefManageR"      "reformulas"      "rematch"
#> [274] "rematch2"        "remotes"         "reprex"
#> [277] "reshape2"        "reticulate"      "rex"
#> [280] "rhub"            "rjags"           "rlang"
#> [283] "RMariaDB"        "rmarkdown"       "roxygen2"
#> [286] "rpf"             "RPostgres"       "rProject"
#> [289] "rprojroot"       "rsample"         "RSQLite"
#> [292] "rstan"           "rstantools"      "rstudioapi"
#> [295] "rversions"       "rvest"           "Ryacas"
#> [298] "sass"            "scales"          "selectr"
#> [301] "semlbci"         "semmcci"         "sessioninfo"
#> [304] "sfd"             "shape"           "shiny"
#> [307] "simStateSpace"   "slider"          "snow"
#> [310] "snowfall"        "sourcetools"     "SparseM"
#> [313] "sparsevctrs"     "SQUAREM"         "StanHeaders"
#> [316] "stringi"         "stringr"         "styler"
#> [319] "symSEM"          "sys"             "systemfonts"
#> [322] "tailor"          "tensorA"         "testthat"
#> [325] "texreg"          "textshaping"     "tibble"
#> [328] "tidymodels"      "tidyr"           "tidyselect"
#> [331] "tidyverse"       "timechange"      "timeDate"
#> [334] "tinytex"         "tune"            "tzdb"
#> [337] "ucminf"          "urlchecker"      "usethis"
#> [340] "utf8"            "uuid"            "V8"
#> [343] "vctrs"           "viridis"         "viridisLite"
#> [346] "vroom"           "waldo"           "warp"
#> [349] "whisker"         "whoami"          "withr"
#> [352] "workflows"       "workflowsets"    "xfun"
#> [355] "xml2"            "xmlparsedata"    "xopen"
#> [358] "xtable"          "yaml"            "yardstick"
#> [361] "zip"             "base"            "boot"
#> [364] "class"           "cluster"         "codetools"
#> [367] "compiler"        "datasets"        "foreign"
#> [370] "graphics"        "grDevices"       "grid"
#> [373] "KernSmooth"      "lattice"         "MASS"
#> [376] "Matrix"          "methods"         "mgcv"
#> [379] "nlme"            "nnet"            "parallel"
```

```
#> [382] "rpart"            "spatial"          "splines"
#> [385] "stats"            "stats4"           "survival"
#> [388] "tcltk"            "tools"            "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/