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_2.0.3   glue_1.8.0        stringr_1.5.1    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_2.1.0  plyr_1.8.9        httr_1.4.7        tools_4.5.1
#> [21] evaluate_1.0.4   Rcpp_1.1.0        RefManageR_1.4.0 rlang_1.1.6
```

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

Packages

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

```
#>   [1] "rProject"        "simStateSpace"    "abind"
#>   [4] "Amelia"          "arm"              "arrow"
#>   [7] "ash"             "askpass"          "assertthat"
#>  [10] "backports"       "base64enc"        "betaDelta"
#>  [13] "betaMC"          "betaNB"           "betaSandwich"
#>  [16] "BH"              "bibtex"           "BiocManager"
#>  [19] "bit"             "bit64"            "bitops"
#>  [22] "blob"            "bootStateSpace"   "brew"
#>  [25] "brio"            "broom"            "bslib"
#>  [28] "cachem"          "callr"            "car"
#>  [31] "caracas"         "carData"          "cellranger"
#>  [34] "cffr"            "checkmate"        "cli"
#>  [37] "clipr"           "clock"            "clusterGeneration"
#>  [40] "coda"            "cOde"             "collections"
#>  [43] "colorspace"      "commonmark"       "conflicted"
#>  [46] "corpcor"         "covr"             "cowplot"
#>  [49] "cpp11"           "crayon"           "credentials"
#>  [52] "crosstalk"       "cTMed"            "ctsem"
#>  [55] "curl"            "data.table"       "DBI"
#>  [58] "dbplyr"          "Deriv"            "desc"
#>  [61] "deSolve"         "devtools"         "diagram"
#>  [64] "dials"           "DiceDesign"       "diffobj"
#>  [67] "digest"          "distributional"   "distro"
#>  [70] "doBy"            "docopt"           "doFuture"
#>  [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"             "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"       "mvtnorm"          "nloptr"
#> [199] "numDeriv"        "nycflights13"     "OpenMx"
#> [202] "openssl"         "ordinal"          "pan"
#> [205] "pander"          "parallelly"       "parsnip"
#> [208] "patchwork"       "pbapply"          "pbivnorm"
#> [211] "pbkrtest"        "pcaPP"            "pdftools"
#> [214] "pillar"          "pkgbuild"         "pkgconfig"
#> [217] "pkgdown"         "pkgload"          "plogr"
#> [220] "plyr"            "png"              "posterior"
#> [223] "pracma"          "praise"           "prettyunits"
#> [226] "printr"          "processx"         "prodlim"
#> [229] "profvis"         "progress"         "progressr"
#> [232] "promises"        "proto"            "ps"
#> [235] "psych"           "purrr"            "qgraph"
#> [238] "qpdf"            "quadprog"         "quantreg"
#> [241] "quarto"          "QuickJSR"         "R.cache"
#> [244] "R.methodsS3"     "R.oo"             "R.utils"
```

```
#> [247] "R2jags"        "R2WinBUGS"      "R6"
#> [250] "ragg"          "rainbow"        "rappdirs"
#> [253] "rbibutils"     "rcmdcheck"      "RColorBrewer"
#> [256] "Rcpp"          "RcppArmadillo"  "RcppEigen"
#> [259] "RcppGSL"       "RcppParallel"   "RcppTOML"
#> [262] "RCurl"         "Rdpack"         "readr"
#> [265] "readxl"        "recipes"        "RefManageR"
#> [268] "reformulas"    "rematch"        "rematch2"
#> [271] "remotes"       "reprex"         "reshape2"
#> [274] "reticulate"    "rex"            "rhub"
#> [277] "rjags"         "rlang"          "RMariaDB"
#> [280] "rmarkdown"     "roxygen2"       "rpf"
#> [283] "RPostgres"     "rProject"       "rprojroot"
#> [286] "rsample"       "RSQLite"        "rstan"
#> [289] "rstantools"    "rstudioapi"     "rversions"
#> [292] "rvest"         "Ryacas"         "sass"
#> [295] "scales"        "selectr"        "semlbci"
#> [298] "semmcci"       "sessioninfo"    "sfd"
#> [301] "shape"         "shiny"          "simStateSpace"
#> [304] "slider"        "snow"           "snowfall"
#> [307] "sourcetools"   "SparseM"        "sparsevctrs"
#> [310] "SQUAREM"       "StanHeaders"    "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/