Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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-r0.3.20.so;  LAPACK version 3.10.
#>
#> 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.48
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.48
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1     compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.1
#> [21] evaluate_1.0.0   Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

#>  [1] "askpass"      "betaNB"       "cli"
#>  [4] "commonmark"   "credentials"  "curl"
#>  [7] "devtools"     "evaluate"     "gert"
#> [10] "glue"         "httr2"        "jsonlite"
#> [13] "openssl"      "pkgdown"      "profvis"
#> [16] "ps"           "rProject"     "sys"
```

```
#>  [19] "tinytex"        "V8"          "xfun"
#>  [22] "abind"          "arm"         "arrow"
#>  [25] "ash"            "AsioHeaders" "askpass"
#>  [28] "assertthat"     "backports"   "base64enc"
#>  [31] "betaDelta"      "betaMC"      "betaNB"
#>  [34] "betaSandwich"   "BH"          "bibtex"
#>  [37] "BiocManager"    "bit"         "bit64"
#>  [40] "bitops"         "blob"        "brew"
#>  [43] "brio"           "broom"       "bslib"
#>  [46] "cachem"         "callr"       "car"
#>  [49] "caracas"        "carData"     "cellranger"
#>  [52] "cffr"           "checkmate"   "cli"
#>  [55] "clipr"          "clock"       "clusterGeneration"
#>  [58] "coda"           "cOde"        "collections"
#>  [61] "colorspace"     "commonmark"  "conflicted"
#>  [64] "corpcor"        "covr"        "cowplot"
#>  [67] "cpp11"          "crayon"      "credentials"
#>  [70] "crosstalk"      "cTMed"       "ctsem"
#>  [73] "curl"           "cyclocomp"   "data.table"
#>  [76] "DBI"            "dbplyr"      "Deriv"
#>  [79] "desc"           "deSolve"     "devtools"
#>  [82] "diagram"        "dials"       "DiceDesign"
#>  [85] "diffobj"        "digest"      "distributional"
#>  [88] "distro"         "doBy"        "docopt"
#>  [91] "doFuture"       "downlit"     "dplyr"
#>  [94] "DT"             "dtplyr"      "duckdb"
#>  [97] "dynr"           "dynUtils"    "ellipse"
```

```
#> [100] "ellipsis"           "evaluate"          "expm"
#> [103] "fansi"              "farver"            "fastDummies"
#> [106] "fastmap"            "fclust"            "fda"
#> [109] "fdrtool"            "fds"               "fitCTVARMx"
#> [112] "fitDTVARMx"         "FNN"               "fontawesome"
#> [115] "forcats"            "foreach"           "Formula"
#> [118] "fs"                 "fst"               "fstcore"
#> [121] "furrr"              "future"            "future.apply"
#> [124] "gargle"             "generics"          "gert"
#> [127] "ggplot2"            "ggrepel"           "gh"
#> [130] "gitcreds"           "glasso"            "glmnet"
#> [133] "globals"            "glue"              "googledrive"
#> [136] "googlesheets4"      "gower"             "GPArotation"
#> [139] "GPfit"              "graphicalVAR"      "gridExtra"
#> [142] "gsubfn"             "gtable"            "gtools"
#> [145] "hardhat"            "haven"             "hdrcde"
#> [148] "here"               "highr"             "Hmisc"
#> [151] "hms"                "htmlTable"         "htmltools"
#> [154] "htmlwidgets"        "httpgd"            "httpuv"
#> [157] "httr"               "httr2"             "ids"
#> [160] "ifaTools"           "igraph"            "infer"
#> [163] "ini"                "inline"            "ipred"
#> [166] "isoband"            "iterators"         "jomo"
#> [169] "jpeg"               "jquerylib"         "jsonlite"
#> [172] "jsonvalidate"       "kernlab"           "knitr"
#> [175] "ks"                 "labeling"          "Lahman"
#> [178] "languageserver"     "later"             "latex2exp"
```

```
#> [181] "lava"            "lavaan"            "lazyeval"
#> [184] "lhs"             "lifecycle"         "lintr"
#> [187] "listenv"         "littler"           "lme4"
#> [190] "locfit"          "longMI"            "loo"
#> [193] "lubridate"       "magick"            "magrittr"
#> [196] "markdown"        "MatrixModels"      "matrixStats"
#> [199] "mclust"          "memoise"           "metaSEM"
#> [202] "metaVAR"         "mice"              "microbenchmark"
#> [205] "mime"            "miniUI"            "minqa"
#> [208] "mitml"           "mize"              "mlVAR"
#> [211] "mnormt"          "modeldata"         "modelenv"
#> [214] "modelr"          "MplusAutomation"   "multicool"
#> [217] "munsell"         "mvtnorm"           "nloptr"
#> [220] "numDeriv"        "nycflights13"      "OpenMx"
#> [223] "openssl"         "ordinal"           "pan"
#> [226] "pander"          "parallelly"        "parsnip"
#> [229] "patchwork"       "pbapply"           "pbivnorm"
#> [232] "pbkrtest"        "pcaPP"             "pdftools"
#> [235] "pillar"          "pkgbuild"          "pkgconfig"
#> [238] "pkgdown"         "pkgload"           "plogr"
#> [241] "plyr"            "png"               "posterior"
#> [244] "pracma"          "praise"            "prettyunits"
#> [247] "printr"          "processx"          "prodlim"
#> [250] "profvis"         "progress"          "progressr"
#> [253] "promises"        "proto"             "ps"
#> [256] "psych"           "purrr"             "qgraph"
#> [259] "qpdf"            "quadprog"          "quantreg"
```

```
#> [262] "quarto"         "QuickJSR"       "R.cache"
#> [265] "R.methodsS3"     "R.oo"           "R.utils"
#> [268] "R6"              "ragg"           "rainbow"
#> [271] "rappdirs"        "rbibutils"      "rcmdcheck"
#> [274] "RColorBrewer"    "Rcpp"           "RcppArmadillo"
#> [277] "RcppEigen"       "RcppGSL"        "RcppParallel"
#> [280] "RcppTOML"        "RCurl"          "Rdpack"
#> [283] "readr"           "readxl"         "recipes"
#> [286] "RefManageR"      "rematch"        "rematch2"
#> [289] "remotes"         "reprex"         "reshape2"
#> [292] "reticulate"      "rex"            "rhub"
#> [295] "rjags"           "rlang"          "RMariaDB"
#> [298] "rmarkdown"       "roxygen2"       "rpf"
#> [301] "RPostgres"       "rProject"       "rprojroot"
#> [304] "rsample"         "RSQLite"        "rstan"
#> [307] "rstantools"      "rstudioapi"     "rversions"
#> [310] "rvest"           "Ryacas"         "sass"
#> [313] "scales"          "selectr"        "semlbci"
#> [316] "semmcci"         "sessioninfo"    "sfd"
#> [319] "shape"           "shiny"          "simStateSpace"
#> [322] "slider"          "snow"           "snowfall"
#> [325] "sourcetools"     "SparseM"        "SQUAREM"
#> [328] "StanHeaders"     "statmod"        "stringi"
#> [331] "stringr"         "styler"         "symSEM"
#> [334] "sys"             "systemfonts"    "tensorA"
#> [337] "testthat"        "texreg"         "textshaping"
#> [340] "tibble"          "tidymodels"     "tidyr"
```

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