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

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

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

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#> [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/