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 22.04.5 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_1.9.4  xfun_0.49
#>  [5] magrittr_2.0.3   glue_1.8.0        stringr_1.5.1    knitr_1.49
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9001   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_1.0.1   Rcpp_1.0.13-1    RefManageR_1.4.0 rlang_1.1.4
```

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#> [25] jsonlite_1.8.9   stringi_1.8.4
```

Packages

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

```
#>   [1] "openssl"            "pillar"           "rProject"
#>   [4] "simStateSpace"      "abind"            "arm"
#>   [7] "arrow"              "ash"              "AsioHeaders"
#>  [10] "askpass"            "assertthat"       "backports"
#>  [13] "base64enc"          "betaDelta"        "betaMC"
#>  [16] "betaNB"             "betaSandwich"     "BH"
#>  [19] "bibtex"             "BiocManager"      "bit"
#>  [22] "bit64"              "bitops"           "blob"
#>  [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"             "cyclocomp"
#>  [58] "data.table"         "DBI"              "dbplyr"
#>  [61] "Deriv"              "desc"             "deSolve"
#>  [64] "devtools"           "diagram"          "dials"
#>  [67] "DiceDesign"         "diffobj"          "digest"
#>  [70] "distributional"     "distro"           "doBy"
#>  [73] "docopt"             "doFuture"         "downlit"
#>  [76] "dplyr"              "DT"               "dtplyr"
#>  [79] "duckdb"             "dynr"             "dynUtils"
#>  [82] "ellipse"            "ellipsis"         "evaluate"
#>  [85] "expm"               "fansi"            "farver"
#>  [88] "fastDummies"        "fastmap"          "fclust"
#>  [91] "fda"                "fdrtool"          "fds"
#>  [94] "fitCTVARMx"         "fitDTVARMx"       "FNN"
#>  [97] "fontawesome"        "forcats"          "foreach"
#> [100] "Formula"            "fs"               "fst"
#> [103] "fstcore"            "furrr"            "future"
#> [106] "future.apply"       "gargle"           "generics"
#> [109] "gert"               "ggplot2"          "ggrepel"
```

```
#> [112] "gh"              "gitcreds"          "glasso"
#> [115] "glmnet"          "globals"           "glue"
#> [118] "googledrive"     "googlesheets4"     "gower"
#> [121] "GPArotation"     "GPfit"             "graphicalVAR"
#> [124] "gridExtra"       "gsubfn"            "gtable"
#> [127] "gtools"          "hardhat"           "haven"
#> [130] "hdrcde"          "here"              "highr"
#> [133] "Hmisc"           "hms"               "htmlTable"
#> [136] "htmltools"       "htmlwidgets"       "httpgd"
#> [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"           "littler"
#> [172] "lme4"            "locfit"            "longMI"
#> [175] "loo"             "lubridate"         "magick"
#> [178] "magrittr"        "markdown"          "MatrixModels"
#> [181] "matrixStats"     "mclust"            "memoise"
#> [184] "metaSEM"         "metaVAR"           "mice"
#> [187] "microbenchmark"  "mime"              "miniUI"
#> [190] "minqa"           "mitml"             "mize"
#> [193] "mlVAR"           "mnormt"            "modeldata"
#> [196] "modelenv"        "modelr"            "MplusAutomation"
#> [199] "multicool"       "munsell"           "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"        "R6"             "ragg"
#> [253] "rainbow"        "rappdirs"       "rbibutils"
#> [256] "rcmdcheck"      "RColorBrewer"   "Rcpp"
#> [259] "RcppArmadillo"  "RcppEigen"      "RcppGSL"
#> [262] "RcppParallel"   "RcppTOML"       "RCurl"
#> [265] "Rdpack"         "readr"          "readxl"
#> [268] "recipes"        "RefManageR"     "rematch"
#> [271] "rematch2"       "remotes"        "reprex"
#> [274] "reshape2"       "reticulate"     "rex"
#> [277] "rhub"           "rjags"          "rlang"
#> [280] "RMariaDB"       "rmarkdown"      "roxygen2"
#> [283] "rpf"            "RPostgres"      "rProject"
#> [286] "rprojroot"      "rsample"        "RSQLite"
#> [289] "rstan"          "rstantools"     "rstudioapi"
#> [292] "rversions"      "rvest"          "Ryacas"
#> [295] "sass"           "scales"         "selectr"
#> [298] "semlbci"        "semmcci"        "sessioninfo"
#> [301] "sfd"            "shape"          "shiny"
#> [304] "simStateSpace"  "slider"         "snow"
#> [307] "snowfall"       "sourcetools"    "SparseM"
#> [310] "SQUAREM"        "StanHeaders"    "statmod"
#> [313] "stringi"        "stringr"        "styler"
#> [316] "symSEM"         "sys"            "systemfonts"
#> [319] "tensorA"        "testthat"       "texreg"
#> [322] "textshaping"    "tibble"         "tidymodels"
#> [325] "tidyr"          "tidyselect"     "tidyverse"
#> [328] "timechange"     "timeDate"       "tinytex"
#> [331] "tune"           "tzdb"           "ucminf"
#> [334] "unigd"          "urlchecker"     "usethis"
#> [337] "utf8"           "uuid"           "V8"
#> [340] "vctrs"          "viridis"        "viridisLite"
#> [343] "vroom"          "waldo"          "warp"
#> [346] "whisker"        "whoami"         "withr"
#> [349] "workflows"      "workflowsets"   "xfun"
#> [352] "xml2"           "xmlparsedata"   "xopen"
#> [355] "xtable"         "yaml"           "yardstick"
#> [358] "zip"            "base"           "boot"
#> [361] "class"          "cluster"        "codetools"
#> [364] "compiler"       "datasets"       "foreign"
#> [367] "graphics"       "grDevices"      "grid"
#> [370] "KernSmooth"     "lattice"        "MASS"
#> [373] "Matrix"         "methods"        "mgcv"
#> [376] "nlme"           "nnet"           "parallel"
#> [379] "rpart"          "spatial"        "splines"
```

```
#> [382] "stats"          "stats4"         "survival"
#> [385] "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/