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_0.46
#>  [5] magrittr_2.0.3   glue_1.7.0        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_0.24.0  Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
```

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#> [25] jsonlite_1.8.8   stringi_1.8.4
```

Packages

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

```
#>   [1] "cffr"          "fitCTVARMx"    "rProject"      "abind"
#>   [5] "arrow"         "ash"           "AsioHeaders"   "askpass"
#>   [9] "assertthat"    "backports"     "base64enc"     "betaDelta"
#>  [13] "betaMC"        "betaNB"        "betaSandwich"  "BH"
#>  [17] "bibtex"        "BiocManager"   "bit"           "bit64"
#>  [21] "bitops"        "blob"          "brew"          "brio"
#>  [25] "broom"         "bslib"         "cachem"        "callr"
#>  [29] "car"           "caracas"       "carData"       "cellranger"
#>  [33] "cffr"          "checkmate"     "cli"           "clipr"
#>  [37] "clock"         "coda"          "cOde"          "collections"
#>  [41] "colorspace"    "commonmark"    "conflicted"    "corpcor"
#>  [45] "covr"          "cowplot"       "cpp11"         "crayon"
#>  [49] "credentials"   "crosstalk"     "cTMed"         "ctsem"
#>  [53] "curl"          "cyclocomp"     "data.table"    "DBI"
#>  [57] "dbplyr"        "Deriv"         "desc"          "deSolve"
#>  [61] "devtools"      "diagram"       "dials"         "DiceDesign"
#>  [65] "diffobj"       "digest"        "distributional" "distro"
#>  [69] "doBy"          "docopt"        "doFuture"      "downlit"
#>  [73] "dplyr"         "DT"            "dtplyr"        "duckdb"
#>  [77] "dynr"          "dynUtils"      "ellipse"       "ellipsis"
#>  [81] "evaluate"      "expm"          "fansi"         "farver"
#>  [85] "fastDummies"   "fastmap"       "fclust"        "fda"
#>  [89] "fdrtool"       "fds"           "fitCTVARMx"    "fitDTVARMx"
#>  [93] "FNN"           "fontawesome"   "forcats"       "foreach"
#>  [97] "Formula"       "fs"            "fst"           "fstcore"
#> [101] "furrr"         "future"        "future.apply"  "gargle"
#> [105] "generics"      "gert"          "ggplot2"       "ggrepel"
#> [109] "gh"            "gitcreds"      "glasso"        "glmnet"
#> [113] "globals"       "glue"          "googledrive"   "googlesheets4"
#> [117] "gower"         "GPArotation"   "GPfit"         "gridExtra"
#> [121] "gsubfn"        "gtable"        "gtools"        "hardhat"
#> [125] "haven"         "hdrcde"        "here"          "highr"
#> [129] "Hmisc"         "hms"           "htmlTable"     "htmltools"
#> [133] "htmlwidgets"   "httpgd"        "httpuv"        "httr"
#> [137] "httr2"         "ids"           "ifaTools"      "igraph"
#> [141] "infer"         "ini"           "inline"        "ipred"
#> [145] "isoband"       "iterators"     "jomo"          "jpeg"
```

```
#> [149] "jquerylib"        "jsonlite"        "jsonvalidate"      "kernlab"
#> [153] "knitr"            "ks"              "labeling"          "Lahman"
#> [157] "languageserver"   "later"           "latex2exp"         "lava"
#> [161] "lavaan"           "lazyeval"        "lhs"               "lifecycle"
#> [165] "lintr"            "listenv"         "littler"           "lme4"
#> [169] "locfit"           "longMI"          "loo"               "lubridate"
#> [173] "magick"           "magrittr"        "markdown"          "MatrixModels"
#> [177] "matrixStats"      "mclust"          "memoise"           "metaSEM"
#> [181] "metaVAR"          "mice"            "microbenchmark"    "mime"
#> [185] "miniUI"           "minqa"           "mitml"             "mize"
#> [189] "mnormt"           "modeldata"       "modelenv"          "modelr"
#> [193] "MplusAutomation"  "multicool"       "munsell"           "mvtnorm"
#> [197] "nloptr"           "numDeriv"        "nycflights13"      "OpenMx"
#> [201] "openssl"          "ordinal"         "pan"               "pander"
#> [205] "parallelly"       "parsnip"         "patchwork"         "pbapply"
#> [209] "pbivnorm"         "pbkrtest"        "pcaPP"             "pdftools"
#> [213] "pillar"           "pkgbuild"        "pkgconfig"         "pkgdown"
#> [217] "pkgload"          "plogr"           "plyr"              "png"
#> [221] "posterior"        "pracma"          "praise"            "prettyunits"
#> [225] "printr"           "processx"        "prodlim"           "profvis"
#> [229] "progress"         "progressr"       "promises"          "proto"
#> [233] "ps"               "psych"           "purrr"             "qgraph"
#> [237] "qpdf"             "quadprog"        "quantreg"          "quarto"
#> [241] "QuickJSR"         "R.cache"         "R.methodsS3"       "R.oo"
#> [245] "R.utils"          "R6"              "ragg"              "rainbow"
#> [249] "rappdirs"         "rbibutils"       "rcmdcheck"         "RColorBrewer"
#> [253] "Rcpp"             "RcppArmadillo"   "RcppEigen"         "RcppGSL"
#> [257] "RcppParallel"     "RcppTOML"        "RCurl"             "Rdpack"
#> [261] "readr"            "readxl"          "recipes"           "RefManageR"
#> [265] "rematch"          "rematch2"        "remotes"           "reprex"
#> [269] "reshape2"         "reticulate"      "rex"               "rhub"
#> [273] "rlang"            "RMariaDB"        "rmarkdown"         "roxygen2"
#> [277] "rpf"              "RPostgres"       "rProject"          "rprojroot"
#> [281] "rsample"          "RSQLite"         "rstan"             "rstantools"
#> [285] "rstudioapi"       "rversions"       "rvest"             "Ryacas"
#> [289] "sass"             "scales"          "selectr"           "semlbci"
#> [293] "semmcci"          "sessioninfo"     "shape"             "shiny"
#> [297] "simStateSpace"    "slider"          "snow"              "snowfall"
#> [301] "sourcetools"      "SparseM"         "SQUAREM"           "StanHeaders"
#> [305] "statmod"          "stringi"         "stringr"           "styler"
#> [309] "symSEM"           "sys"             "systemfonts"       "tensorA"
#> [313] "testthat"         "texreg"          "textshaping"       "tibble"
#> [317] "tidymodels"       "tidyr"           "tidyselect"        "tidyverse"
#> [321] "timechange"       "timeDate"        "tinytex"           "tune"
#> [325] "tzdb"             "ucminf"          "unigd"             "urlchecker"
```

```
#> [329] "usethis"      "utf8"          "uuid"            "V8"
#> [333] "vctrs"        "viridis"       "viridisLite"     "vroom"
#> [337] "waldo"        "warp"          "whisker"         "whoami"
#> [341] "withr"        "workflows"     "workflowsets"    "xfun"
#> [345] "xml2"         "xmlparsedata"  "xopen"           "xtable"
#> [349] "yaml"         "yardstick"     "zip"             "base"
#> [353] "boot"         "class"         "cluster"         "codetools"
#> [357] "compiler"     "datasets"      "foreign"         "graphics"
#> [361] "grDevices"    "grid"          "KernSmooth"      "lattice"
#> [365] "MASS"         "Matrix"        "methods"         "mgcv"
#> [369] "nlme"         "nnet"          "parallel"        "rpart"
#> [373] "spatial"      "splines"       "stats"           "stats4"
#> [377] "survival"     "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/