Session Info

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Session

```
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
          / 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 xm12_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
#> [25] jsonlite_1.8.8 stringi_1.8.4
```

Packages

```
unname(installed.packages()[, 1])
    [1] "cli"
                             "metaVAR"
                                                  "rProject"
#>
    [4] "abind"
                             "arm"
                                                  "arrow"
    [7] "ash"
                             "AsioHeaders"
                                                  "askpass"
#>
   [10] "assertthat"
                                                  "base64enc"
                             "backports"
    [13] "betaDelta"
                             "betaMC"
                                                  "betaNB"
#> [16] "betaSandwich"
                             "BH"
                                                  "bibtex"
```

#>	[19] "BiocManager"	"bit"	"bit64"
#>	[22] "bitops"	"blob"	"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"	"cyclocomp"	"data.table"
#>	[58] "DBI"	"dbplyr"	"Deriv"
#>	[61] "desc"	"deSolve"	"devtools"
#>	[64] "diagram"	"dials"	"DiceDesign"
#>	[67] "diffobj"	"digest"	"distributional"
#>	[70] "distro"	"doBy"	"docopt"
#>	[73] "doFuture"	"downlit"	"dplyr"
#>	[76] "DT"	"dtplyr"	"duckdb"
#>	[79] "dynr"	"dynUtils"	"ellipse"
#>	[82] "ellipsis"	"evaluate"	"expm"
#>	[85] "fansi"	"farver"	"fastDummies"
#>	[88] "fastmap"	"fclust"	"fda"
#>	[91] "fdrtool"	"fds"	"fitCTVARMx"
#>	[94] "fitDTVARMx"	"FNN"	"fontawesome"
#>	[97] "forcats"	"foreach"	"Formula"

#>	[100]	"fs"	"fst"	"fstcore"
#>	[103]	"furrr"	"future"	"future.apply"
#>	[106]	"gargle"	"generics"	"gert"
#>	[109]	"ggplot2"	"ggrepel"	"gh"
#>	[112]	"gitcreds"	"glasso"	"glmnet"
#>	[115]	"globals"	"glue"	"googledrive"
#>	[118]	"googlesheets4"	"gower"	"GPArotation"
#>	[121]	"GPfit"	"graphicalVAR"	"gridExtra"
#>	[124]	"gsubfn"	"gtable"	"gtools"
#>	[127]	"hardhat"	"haven"	"hdrcde"
#>	[130]	"here"	"highr"	"Hmisc"
#>	[133]	"hms"	"htmlTable"	"htmltools"
#>	[136]	"htmlwidgets"	"httpgd"	"httpuv"
#>	[139]	"httr"	"httr2"	"ids"
#>	[142]	"ifaTools"	"igraph"	"infer"
#>	[145]	"ini"	"inline"	"ipred"
#>	[148]	"isoband"	"iterators"	"jomo"
#>	[151]	"jpeg"	"jquerylib"	"jsonlite"
#>	[154]	"jsonvalidate"	"kernlab"	"knitr"
#>	[157]	"ks"	"labeling"	"Lahman"
#>	[160]	"languageserver"	"later"	"latex2exp"
#>	[163]	"lava"	"lavaan"	"lazyeval"
#>	[166]	"lhs"	"lifecycle"	"lintr"
#>	[169]	"listenv"	"littler"	"lme4"
#>	[172]	"locfit"	"longMI"	"loo"
#>	[175]	"lubridate"	"magick"	"magrittr"
#>	[178]	"markdown"	"MatrixModels"	"matrixStats"

#>	[181]	"mclust"	"memoise"	"metaSEM"
#>	[184]	"metaVAR"	"mice"	"microbenchmark"
#>	[187]	"mime"	"miniUI"	"minqa"
#>	[190]	"mitml"	"mize"	"mlVAR"
#>	[193]	"mnormt"	"modeldata"	"modelenv"
#>	[196]	"modelr"	"MplusAutomation"	"multicool"
#>	[199]	"munsell"	"mvtnorm"	"nloptr"
#>	[202]	"numDeriv"	"nycflights13"	"OpenMx"
#>	[205]	"openssl"	"ordinal"	"pan"
#>	[208]	"pander"	"parallelly"	"parsnip"
#>	[211]	"patchwork"	"pbapply"	"pbivnorm"
#>	[214]	"pbkrtest"	"pcaPP"	"pdftools"
#>	[217]	"pillar"	"pkgbuild"	"pkgconfig"
#>	[220]	"pkgdown"	"pkgload"	"plogr"
#>	[223]	"plyr"	"png"	"posterior"
#>	[226]	"pracma"	"praise"	"prettyunits"
#>	[229]	"printr"	"processx"	"prodlim"
#>	[232]	"profvis"	"progress"	"progressr"
#>	[235]	"promises"	"proto"	"ps"
#>	[238]	"psych"	"purrr"	"qgraph"
#>	[241]	"qpdf"	"quadprog"	"quantreg"
#>	[244]	"quarto"	"QuickJSR"	"R.cache"
#>	[247]	"R.methodsS3"	"R.00"	"R.utils"
#>	[250]	"R6"	"ragg"	"rainbow"
#>	[253]	"rappdirs"	"rbibutils"	"rcmdcheck"
#>	[256]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#>	[259]	"RcppEigen"	"RcppGSL"	"RcppParallel"

#> [262] "RcppTOML"	"RCurl"	"Rdpack"
#> [265] "readr"	"readxl"	"recipes"
#> [268] "RefManageR"	"rematch"	"rematch2"
#> [271] "remotes"	"reprex"	"reshape2"
#> [274] "reticulate"	"rex"	"rhub"
#> [277] "rlang"	"RMariaDB"	"rmarkdown"
#> [280] "roxygen2"	"rpf"	"RPostgres"
#> [283] "rProject"	"rprojroot"	"rsample"
#> [286] "RSQLite"	"rstan"	"rstantools"
#> [289] "rstudioapi"	"rversions"	"rvest"
#> [292] "Ryacas"	"sass"	"scales"
#> [295] "selectr"	"semlbci"	"semmcci"
#> [298] "sessioninfo"	"sfd"	"shape"
#> [301] "shiny"	"simStateSpace"	"slider"
#> [304] "snow"	"snowfall"	"sourcetools"
#> [307] "SparseM"	"SQUAREM"	"StanHeaders"
#> [310] "statmod"	"stringi"	"stringr"
#> [313] "styler"	"symSEM"	"sys"
#> [316] "systemfonts"	"tensorA"	"testthat"
#> [319] "texreg"	"textshaping"	"tibble"
#> [322] "tidymodels"	"tidyr"	"tidyselect"
#> [325] "tidyverse"	"timechange"	"timeDate"
#> [328] "tinytex"	"tune"	"tzdb"
#> [331] "ucminf"	"unigd"	"urlchecker"
#> [334] "usethis"	"utf8"	"uuid"
#> [337] "V8"	"vctrs"	"viridis"
<pre>#> [337] "V8" #> [340] "viridisLite"</pre>	"vctrs" "vroom"	"viridis" "waldo"

#> [343	3] "warp"	"whisker"	"whoami"
#> [346	3] "withr"	"workflows"	"workflowsets"
#> [349] "xfun"	"xm12"	"xmlparsedata"
#> [352	2] "xopen"	"xtable"	"yaml"
#> [355	[5] "yardstick"	"zip"	"base"
#> [358	B] "boot"	"class"	"cluster"
#> [361] "codetools"	"compiler"	"datasets"
#> [364	l] "foreign"	"graphics"	"grDevices"
#> [367] "grid"	"KernSmooth"	"lattice"
#> [370] "MASS"	"Matrix"	"methods"
#> [373	B] "mgcv"	"nlme"	"nnet"
#> [376	3] "parallel"	"rpart"	"spatial"
#> [379] "splines"	"stats"	"stats4"
#> [382	2] "survival"	"tcltk"	"tools"
#> [385	[] "utils"		

References

R Core Team. (2023). R: A language and environment for statistical computing. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/