

# 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  
#> BLAS: /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3  
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblas-p0.3.20.so; LAPACK version 3.10.3  
#>  
#> 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
```

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#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.13
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0 R6_2.5.1      lubridate_1.9.3 xfun_0.45
#> [5] magrittr_2.0.3  glue_1.7.0    stringr_1.5.1   knitr_1.47
#> [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_1.0.12   RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8 stringi_1.8.4

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## Packages

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

#> [1] "metaVAR"      "abind"        "arrow"        "ash"
#> [5] "AsioHeaders"  "askpass"      "assertthat"   "backports"
#> [9] "base64enc"    "betaDelta"    "betaMC"       "betaNB"
#> [13] "betaSandwich" "BH"           "bibtex"       "BiocManager"
#> [17] "bit"          "bit64"        "bitops"       "blob"
#> [21] "brew"         "brio"         "broom"        "bslib"

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#> [25] "cachem"      "callr"      "car"        "caracas"
#> [29] "carData"     "cellranger" "cffr"       "checkmate"
#> [33] "cli"         "clipr"      "clock"      "coda"
#> [37] "c0de"        "collections" "colorspace" "commonmark"
#> [41] "conflicted"  "corpcor"    "covr"       "cowplot"
#> [45] "cpp11"       "crayon"     "credentials" "crosstalk"
#> [49] "cTMed"       "ctsem"      "curl"       "cyclocomp"
#> [53] "data.table"  "DBI"        "dbplyr"     "Deriv"
#> [57] "desc"        "deSolve"    "devtools"   "diagram"
#> [61] "dials"       "DiceDesign" "diffobj"    "digest"
#> [65] "distributional" "distro"    "doBy"       "docopt"
#> [69] "doFuture"    "downlit"    "dplyr"      "DT"
#> [73] "dtplyr"      "duckdb"     "dynr"       "dynUtils"
#> [77] "ellipse"     "ellipsis"   "evaluate"   "expm"
#> [81] "fansI"       "farver"     "fastDummies" "fastmap"
#> [85] "fclust"      "fda"        "fdrtool"    "fds"
#> [89] "fitDTVARmX"  "FNN"        "fontawesome" "forcats"
#> [93] "foreach"     "Formula"    "fs"         "fst"
#> [97] "fstcore"     "furryr"     "future"     "future.apply"
#> [101] "gargle"      "generics"   "gert"       "ggplot2"
#> [105] "ggrepel"     "gh"         "gitcreds"   "glasso"
#> [109] "glmnet"      "globals"    "glue"       "googledrive"
#> [113] "googlesheets4" "gower"     "GPArotation" "GPfit"
#> [117] "gridExtra"   "gsubfn"     "gtable"     "gtools"
#> [121] "hardhat"     "haven"      "hdcrcde"    "here"
#> [125] "highr"       "Hmisc"      "hms"        "htmlTable"
#> [129] "htmltools"   "htmlwidgets" "httpgd"     "httpuv"

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#> [133]	"httr"	"httr2"	"ids"	"ifaTools"
#> [137]	"igraph"	"infer"	"ini"	"inline"
#> [141]	"ipred"	"isoband"	"iterators"	"jomo"
#> [145]	"jpeg"	"jquerylib"	"jsonlite"	"jsonvalidate"
#> [149]	"kernlab"	"knitr"	"ks"	"labeling"
#> [153]	"Lahman"	"languageserver"	"later"	"latex2exp"
#> [157]	"lava"	"lavaan"	"lazyeval"	"lhs"
#> [161]	"lifecycle"	"lintr"	"listenv"	"littler"
#> [165]	"lme4"	"locfit"	"longMI"	"loo"
#> [169]	"lubridate"	"magick"	"magrittr"	"markdown"
#> [173]	"MatrixModels"	"matrixStats"	"mclust"	"memoise"
#> [177]	"metaSEM"	"metaVAR"	"mice"	"microbenchmark"
#> [181]	"mime"	"miniUI"	"minqa"	"mitml"
#> [185]	"mize"	"mnormt"	"modeldata"	"modelenv"
#> [189]	"modelr"	"MplusAutomation"	"multicool"	"munsell"
#> [193]	"mvtnorm"	"nloptr"	"numDeriv"	"nycflights13"
#> [197]	"OpenMx"	"openssl"	"ordinal"	"pan"
#> [201]	"pander"	"parallelly"	"parsnip"	"patchwork"
#> [205]	"pbapply"	"pbivnorm"	"pbkrtest"	"pcaPP"
#> [209]	"pdftools"	"pillar"	"pkgbuild"	"pkgconfig"
#> [213]	"pkgdown"	"pkgload"	"plogr"	"plyr"
#> [217]	"png"	"posterior"	"pracma"	"praise"
#> [221]	"prettyunits"	"printr"	"processx"	"prodlim"
#> [225]	"profvis"	"progress"	"progressr"	"promises"
#> [229]	"proto"	"ps"	"psych"	"purrr"
#> [233]	"qgraph"	"qpdf"	"quadprog"	"quantreg"
#> [237]	"quarto"	"QuickJSR"	"R.cache"	"R.methodsS3"

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#> [241] "R.oo"           "R.utils"       "R6"            "ragg"
#> [245] "rainbow"       "rappdirs"     "rbibutils"     "rcmdcheck"
#> [249] "RColorBrewer"  "Rcpp"         "RcppArmadillo" "RcppEigen"
#> [253] "RcppGSL"       "RcppParallel" "RcppTOML"      "RCurl"
#> [257] "Rdpack"        "readr"        "readxl"        "recipes"
#> [261] "RefManagerR"   "rematch"      "rematch2"      "remotes"
#> [265] "reprex"        "reshape2"     "reticulate"    "rex"
#> [269] "rhub"          "rlang"        "RMariaDB"      "rmarkdown"
#> [273] "roxygen2"      "rpf"          "RPostgres"     "rProject"
#> [277] "rprojroot"     "rsample"      "RSQLite"       "rstan"
#> [281] "rstantools"    "rstudioapi"   "rversions"     "rvest"
#> [285] "Ryacas"        "sass"         "scales"        "selectr"
#> [289] "semlbci"       "semmcci"      "sessioninfo"   "shape"
#> [293] "shiny"         "simStateSpace" "slider"        "snow"
#> [297] "snowfall"      "sourcetools"  "SparseM"       "SQUAREM"
#> [301] "StanHeaders"   "statmod"      "stringi"       "stringr"
#> [305] "styler"        "symSEM"       "sys"           "systemfonts"
#> [309] "tensorA"       "testthat"     "texreg"        "textshaping"
#> [313] "tibble"        "tidymodels"   "tidyr"         "tidyselect"
#> [317] "tidyverse"     "timechange"    "timeDate"      "tinytex"
#> [321] "tune"          "tzdb"         "ucminf"        "unigd"
#> [325] "urlchecker"    "usethis"      "utf8"          "uuid"
#> [329] "V8"           "vctrs"        "viridis"       "viridisLite"
#> [333] "vroom"         "waldo"        "warp"          "whisker"
#> [337] "whoami"        "withr"        "workflows"     "workflowsets"
#> [341] "xfun"          "xml2"         "xmlparsedata"  "xopen"
#> [345] "xtable"        "yaml"         "yardstick"     "zip"

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```

#> [349] "base"          "boot"          "class"         "cluster"
#> [353] "codetools"     "compiler"      "datasets"      "foreign"
#> [357] "graphics"      "grDevices"     "grid"          "KernSmooth"
#> [361] "lattice"       "MASS"          "Matrix"        "methods"
#> [365] "mgcv"          "nlme"          "nnet"          "parallel"
#> [369] "rpart"         "spatial"       "splines"       "stats"
#> [373] "stats4"        "survival"      "tcltk"         "tools"
#> [377] "utils"

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## 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/>