

Session Info

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Session

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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-p-r0.3.20.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
#> 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_1.0.1   Rcpp_1.0.13     RefManageR_1.4.0 rlang_1.1.4
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#> [25] jsonlite_1.8.9    stringi_1.8.4
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Packages

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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"     "rstudioapi"   "simStateSpace"
#> [19] "sys"          "tinytex"      "V8"
#> [22] "xfun"         "abind"        "arm"
#> [25] "arrow"        "ash"          "AsioHeaders"
#> [28] "askpass"      "assertthat"   "backports"
#> [31] "base64enc"    "betaDelta"    "betaMC"
#> [34] "betaNB"       "betaSandwich" "BH"
#> [37] "bibtex"       "BiocManager"  "bit"
#> [40] "bit64"        "bitops"       "blob"
#> [43] "brew"         "brio"         "broom"
#> [46] "bslib"        "cachem"       "callr"
#> [49] "car"          "caracas"      "carData"
#> [52] "cellranger"   "cfrfr"        "checkmate"
#> [55] "cli"          "clipr"        "clock"
#> [58] "clusterGeneration" "coda"        "c0de"
#> [61] "collections"  "colorspace"   "commonmark"
#> [64] "conflicted"   "corpcor"      "covr"
#> [67] "cowplot"      "cpp11"        "crayon"
#> [70] "credentials"  "crosstalk"    "cTMed"
#> [73] "ctsem"        "curl"         "cyclocomp"
#> [76] "data.table"   "DBI"          "dbplyr"
#> [79] "Deriv"        "desc"         "deSolve"
#> [82] "devtools"     "diagram"      "dials"
#> [85] "DiceDesign"   "diffobj"      "digest"
#> [88] "distributional" "distro"       "doBy"
#> [91] "docopt"       "doFuture"     "downlit"
#> [94] "dplyr"        "DT"           "dtplyr"
#> [97] "duckdb"       "dynr"         "dynUtils"
#> [100] "ellipse"      "ellipsis"     "evaluate"
#> [103] "expm"         "fans"        "farver"
#> [106] "fastDummies" "fastmap"      "fclust"
#> [109] "fda"          "fdrtool"      "fds"
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#> [112] "fitCTVARMx"      "fitDTVARMx"      "FNN"
#> [115] "fontawesome"     "forcats"         "foreach"
#> [118] "Formula"         "fs"              "fst"
#> [121] "fstcore"         "furry"          "future"
#> [124] "future.apply"    "gargle"         "generics"
#> [127] "gert"            "ggplot2"        "ggrepel"
#> [130] "gh"              "gitcreds"       "glasso"
#> [133] "glmnet"          "globals"        "glue"
#> [136] "googledrive"     "googlesheets4"  "gower"
#> [139] "GPArotation"     "GPfit"          "graphicalVAR"
#> [142] "gridExtra"       "gsubfn"         "gtable"
#> [145] "gtools"          "hardhat"        "haven"
#> [148] "hdcrcde"         "here"           "highr"
#> [151] "Hmisc"           "hms"            "htmlTable"
#> [154] "htmltools"       "htmlwidgets"    "httpgd"
#> [157] "httpuv"          "httr"           "httr2"
#> [160] "ids"             "ifaTools"       "igraph"
#> [163] "infer"           "ini"            "inline"
#> [166] "ipred"           "isoband"        "iterators"
#> [169] "jomo"            "jpeg"           "jquerylib"
#> [172] "jsonlite"        "jsonvalidate"   "kernlab"
#> [175] "knitr"           "ks"             "labeling"
#> [178] "Lahman"          "languageserver" "later"
#> [181] "latex2exp"       "lava"           "lavaan"
#> [184] "lazyeval"        "lhs"            "lifecycle"
#> [187] "lintr"           "listenv"        "littler"
#> [190] "lme4"            "locfit"         "longMI"
#> [193] "loo"             "lubridate"      "magick"
#> [196] "magrittr"        "markdown"       "MatrixModels"
#> [199] "matrixStats"     "mclust"         "memoise"
#> [202] "metaSEM"         "metaVAR"        "mice"
#> [205] "microbenchmark" "mime"           "miniUI"
#> [208] "minqa"           "mitml"          "mize"
#> [211] "mlVAR"           "mnormt"         "modeldata"
#> [214] "modelenv"        "modelr"         "MplusAutomation"
#> [217] "multicool"       "munsell"        "mvtnorm"
#> [220] "nloptr"          "numDeriv"       "nycflights13"
#> [223] "OpenMx"          "openssl"        "ordinal"
#> [226] "pan"             "pander"         "parallelly"
#> [229] "parsnip"         "patchwork"      "pbapply"
#> [232] "pbivnorm"        "pbkrtest"       "pcaPP"
#> [235] "pdftools"        "pillar"         "pkgbuild"
#> [238] "pkgconfig"       "pkgdown"        "pkgload"
#> [241] "plogr"           "plyr"           "png"
#> [244] "posterior"       "pracma"         "praise"

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#> [247]	"prettyunits"	"printr"	"processx"
#> [250]	"prodlim"	"profvis"	"progress"
#> [253]	"progressr"	"promises"	"proto"
#> [256]	"ps"	"psych"	"purrr"
#> [259]	"qgraph"	"qpdf"	"quadprog"
#> [262]	"quantreg"	"quarto"	"QuickJSR"
#> [265]	"R.cache"	"R.methodsS3"	"R.oo"
#> [268]	"R.utils"	"R6"	"ragg"
#> [271]	"rainbow"	"rappdirs"	"rbibutils"
#> [274]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [277]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [280]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [283]	"Rdpack"	"readr"	"readxl"
#> [286]	"recipes"	"RefManageR"	"rematch"
#> [289]	"rematch2"	"remotes"	"reprex"
#> [292]	"reshape2"	"reticulate"	"rex"
#> [295]	"rhub"	"rjags"	"rlang"
#> [298]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [301]	"rpf"	"RPostgres"	"rProject"
#> [304]	"rprojroot"	"rsample"	"RSQLite"
#> [307]	"rstan"	"rstantools"	"rstudioapi"
#> [310]	"rversions"	"rvest"	"Ryacas"
#> [313]	"sass"	"scales"	"selectr"
#> [316]	"semlbci"	"semmccci"	"sessioninfo"
#> [319]	"sfd"	"shape"	"shiny"
#> [322]	"simStateSpace"	"slider"	"snow"
#> [325]	"snowfall"	"sourcetools"	"SparseM"
#> [328]	"SQUAREM"	"StanHeaders"	"statmod"
#> [331]	"stringi"	"stringr"	"styler"
#> [334]	"symSEM"	"sys"	"systemfonts"
#> [337]	"tensorA"	"testthat"	"texreg"
#> [340]	"textshaping"	"tibble"	"tidymodels"
#> [343]	"tidyr"	"tidyselect"	"tidyverse"
#> [346]	"timechange"	"timeDate"	"tinytex"
#> [349]	"tune"	"tzdb"	"ucminf"
#> [352]	"unigd"	"urlchecker"	"usethis"
#> [355]	"utf8"	"uuid"	"V8"
#> [358]	"vctr"	"viridis"	"viridisLite"
#> [361]	"vroom"	"waldo"	"warp"
#> [364]	"whisker"	"whoami"	"withr"
#> [367]	"workflows"	"workflowsets"	"xfun"
#> [370]	"xml2"	"xmlparsedata"	"xopen"
#> [373]	"xtable"	"yaml"	"yardstick"
#> [376]	"zip"	"base"	"boot"
#> [379]	"class"	"cluster"	"codetools"

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#> [382] "compiler"      "datasets"      "foreign"
#> [385] "graphics"      "grDevices"     "grid"
#> [388] "KernSmooth"    "lattice"       "MASS"
#> [391] "Matrix"        "methods"       "mgcv"
#> [394] "nlme"          "nnet"          "parallel"
#> [397] "rpart"         "spatial"       "splines"
#> [400] "stats"         "stats4"        "survival"
#> [403] "tcltk"         "tools"         "utils"
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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/>