

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 22.04.5 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/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_1.9.4  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

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

```
#> [1] "rProject"      "simStateSpace"  "abind"
#> [4] "arm"           "arrow"          "ash"
#> [7] "AsioHeaders"  "askpass"        "assertthat"
#> [10] "backports"    "base64enc"      "betaDelta"
#> [13] "betaMC"       "betaNB"         "betaSandwich"
#> [16] "BH"           "bibtex"         "BiocManager"
#> [19] "bit"          "bit64"          "bitops"
#> [22] "blob"         "brew"           "brio"
#> [25] "broom"        "bslib"          "cachem"
#> [28] "callr"        "car"            "caracas"
#> [31] "carData"      "cellranger"     "cfrfr"
#> [34] "checkmate"    "cli"            "clipr"
#> [37] "clock"        "clusterGeneration" "coda"
#> [40] "c0de"         "collections"    "colorspace"
#> [43] "commonmark"  "conflicted"     "corpcor"
#> [46] "covr"         "cowplot"        "cpp11"
#> [49] "crayon"       "credentials"    "crosstalk"
#> [52] "cTMed"        "ctsem"          "curl"
#> [55] "cyclocomp"    "data.table"     "DBI"
#> [58] "dbplyr"       "Deriv"          "desc"
#> [61] "deSolve"      "devtools"       "diagram"
#> [64] "dials"        "DiceDesign"     "diffobj"
#> [67] "digest"       "distributional" "distro"
#> [70] "doBy"         "docopt"         "doFuture"
#> [73] "downlit"      "dplyr"          "DT"
#> [76] "dtplyr"       "duckdb"         "dynr"
#> [79] "dynUtils"     "ellipse"        "ellipsoids"
#> [82] "evaluate"     "expm"           "fansi"
#> [85] "farver"       "fastDummies"    "fastmap"
#> [88] "fclust"       "fda"            "fdrtool"
#> [91] "fds"          "fitCTVARMx"     "fitDTVARMx"
#> [94] "FNN"          "fontawesome"    "forcats"
#> [97] "foreach"     "Formula"        "fs"
#> [100] "fst"          "fstcore"        "furrr"
#> [103] "future"       "future.apply"   "gargle"
#> [106] "generics"     "gert"           "ggplot2"
#> [109] "ggrepel"      "gh"             "gitcreds"
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#> [112] "glasso"           "glmnet"           "globals"
#> [115] "glue"             "googledrive"      "googlesheets4"
#> [118] "gower"            "GPArotation"      "GPfit"
#> [121] "graphicalVAR"     "gridExtra"        "gsubfn"
#> [124] "gtable"           "gtools"           "hardhat"
#> [127] "haven"            "hdcrcde"          "here"
#> [130] "highr"            "Hmisc"            "hms"
#> [133] "htmlTable"        "htmltools"        "htmlwidgets"
#> [136] "httpgd"           "httpuv"           "httr"
#> [139] "httr2"            "ids"              "ifaTools"
#> [142] "igraph"           "infer"            "ini"
#> [145] "inline"           "ipred"            "isoband"
#> [148] "iterators"        "jomo"             "jpeg"
#> [151] "jquerylib"        "jsonlite"         "jsonvalidate"
#> [154] "kernlab"          "knitr"            "ks"
#> [157] "labeling"         "Lahman"           "languageserver"
#> [160] "later"            "latex2exp"        "lava"
#> [163] "lavaan"           "lazyeval"         "lhs"
#> [166] "lifecycle"        "lintr"            "listenv"
#> [169] "littler"          "lme4"             "locfit"
#> [172] "longMI"           "loo"              "lubridate"
#> [175] "magick"           "magrittr"         "markdown"
#> [178] "MatrixModels"     "matrixStats"      "mclust"
#> [181] "memoise"          "metaSEM"          "metaVAR"
#> [184] "mice"             "microbenchmark"   "mime"
#> [187] "miniUI"           "minqa"            "mitml"
#> [190] "mize"             "mlVAR"            "mnormt"
#> [193] "modeldata"        "modelenv"         "modelr"
#> [196] "MplusAutomation" "multicool"        "munsell"
#> [199] "mvtnorm"          "nloptr"           "numDeriv"
#> [202] "nycflights13"     "OpenMx"           "openssl"
#> [205] "ordinal"          "pan"              "pander"
#> [208] "parallelly"       "parsnip"          "patchwork"
#> [211] "pbapply"          "pbivnorm"         "pbkrtest"
#> [214] "pcaPP"            "pdftools"         "pillar"
#> [217] "pkgbuild"         "pkgconfig"        "pkgdown"
#> [220] "pkgload"          "plogr"            "plyr"
#> [223] "png"              "posterior"        "pracma"
#> [226] "praise"           "prettyunits"      "printr"
#> [229] "processx"         "prodlim"          "profvis"
#> [232] "progress"         "progressr"        "promises"
#> [235] "proto"            "ps"               "psych"
#> [238] "purrr"            "qgraph"           "qpdf"
#> [241] "quadprog"         "quantreg"         "quarto"
#> [244] "QuickJSR"         "R.cache"          "R.methodsS3"

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#> [247]	"R.oo"	"R.utils"	"R6"
#> [250]	"ragg"	"rainbow"	"rappdirs"
#> [253]	"rbibutils"	"rcmdcheck"	"RColorBrewer"
#> [256]	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#> [259]	"RcppGSL"	"RcppParallel"	"RcppTOML"
#> [262]	"RCurl"	"Rdpack"	"readr"
#> [265]	"readxl"	"recipes"	"RefManageR"
#> [268]	"rematch"	"rematch2"	"remotes"
#> [271]	"reprex"	"reshape2"	"reticulate"
#> [274]	"rex"	"rhub"	"rjags"
#> [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"	"semmccci"
#> [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"
#> [340]	"viridisLite"	"vroom"	"waldo"
#> [343]	"warp"	"whisker"	"whoami"
#> [346]	"withr"	"workflows"	"workflowsets"
#> [349]	"xfun"	"xml2"	"xmlparsedata"
#> [352]	"xopen"	"xtable"	"yaml"
#> [355]	"yardstick"	"zip"	"base"
#> [358]	"boot"	"class"	"cluster"
#> [361]	"codetools"	"compiler"	"datasets"
#> [364]	"foreign"	"graphics"	"grDevices"
#> [367]	"grid"	"KernSmooth"	"lattice"
#> [370]	"MASS"	"Matrix"	"methods"
#> [373]	"mgcv"	"nlme"	"nnet"
#> [376]	"parallel"	"rpart"	"spatial"
#> [379]	"splines"	"stats"	"stats4"

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#> [382] "survival"          "tcltk"             "tools"
#> [385] "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/>