

Session Info

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Session

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sessionInfo()
```

```
#> R version 4.5.1 (2025-06-13)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.2 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-r0.3.26.so; LAPACK version 3.12.0
#>
#> 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_0.0.21
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.52
#>  [5] magrittr_2.0.3   glue_1.8.0       stringr_1.5.1    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.4  xml2_1.3.8
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.0  plyr_1.8.9       httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.4   Rcpp_1.1.0       RefManageR_1.4.0 rlang_1.1.6
```

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#> [25] jsonlite_2.0.0   stringi_1.8.7
```

Packages

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

```
#> [1] "cli"           "rProject"       "simStateSpace"
#> [4] "testthat"      "abind"          "Amelia"
#> [7] "arm"           "arrow"          "ash"
#> [10] "askpass"       "assertthat"     "backports"
#> [13] "base64enc"     "betaDelta"      "betaMC"
#> [16] "betaNB"        "betaSandwich"   "BH"
#> [19] "bibtex"        "BiocManager"    "bit"
#> [22] "bit64"         "bitops"         "blob"
#> [25] "bootStateSpace" "brew"           "brio"
#> [28] "broom"         "bslib"          "cachem"
#> [31] "callr"         "car"            "caracas"
#> [34] "carData"       "cellranger"     "cfrfr"
#> [37] "checkmate"     "cli"            "clipr"
#> [40] "clock"         "clusterGeneration" "coda"
#> [43] "c0de"          "collections"    "colorspace"
#> [46] "commonmark"    "conflicted"     "corpcor"
#> [49] "covr"          "cowplot"        "cpp11"
#> [52] "crayon"        "credentials"    "crosstalk"
#> [55] "cTMed"         "ctsem"          "curl"
#> [58] "data.table"    "DBI"            "dbplyr"
#> [61] "Deriv"         "desc"           "deSolve"
#> [64] "devtools"      "diagram"        "dials"
#> [67] "DiceDesign"    "diffobj"        "digest"
#> [70] "distributional" "distro"         "doBy"
#> [73] "docopt"        "doFuture"       "downlit"
#> [76] "dplyr"         "DT"             "dtplyr"
#> [79] "duckdb"        "dynr"           "dynUtils"
#> [82] "ellipse"       "ellipsoids"     "evaluate"
#> [85] "expm"          "fans"           "farver"
#> [88] "fastDummies"   "fastmap"        "fclust"
#> [91] "fda"           "fdrtool"        "fds"
#> [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"	"hdcrcde"
#> [130]	"here"	"highr"	"Hmisc"
#> [133]	"hms"	"htmlTable"	"htmltools"
#> [136]	"htmlwidgets"	"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]	"litedown"	"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]	"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"

#> [247]	"R.oo"	"R.utils"	"R2jags"
#> [250]	"R2WinBUGS"	"R6"	"ragg"
#> [253]	"rainbow"	"rappdirs"	"rbibutils"
#> [256]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [259]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [262]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [265]	"Rdpack"	"readr"	"readxl"
#> [268]	"recipes"	"RefManageR"	"reformulas"
#> [271]	"rematch"	"rematch2"	"remotes"
#> [274]	"reprex"	"reshape2"	"reticulate"
#> [277]	"rex"	"rhub"	"rjags"
#> [280]	"rlang"	"RMariaDB"	"rmarkdown"
#> [283]	"roxygen2"	"rpf"	"RPostgres"
#> [286]	"rProject"	"rprojroot"	"rsample"
#> [289]	"RSQLite"	"rstan"	"rstantools"
#> [292]	"rstudioapi"	"rversions"	"rvest"
#> [295]	"Ryacas"	"sass"	"scales"
#> [298]	"selectr"	"semlbci"	"semmccci"
#> [301]	"sessioninfo"	"sfd"	"shape"
#> [304]	"shiny"	"simStateSpace"	"slider"
#> [307]	"snow"	"snowfall"	"sourcetools"
#> [310]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [313]	"StanHeaders"	"stringi"	"stringr"
#> [316]	"styler"	"symSEM"	"sys"
#> [319]	"systemfonts"	"tensorA"	"testthat"
#> [322]	"texreg"	"textshaping"	"tibble"
#> [325]	"tidymodels"	"tidyr"	"tidyselect"
#> [328]	"tidyverse"	"timechange"	"timeDate"
#> [331]	"tinytex"	"tune"	"tzdb"
#> [334]	"ucminf"	"urlchecker"	"usethis"
#> [337]	"utf8"	"uuid"	"V8"
#> [340]	"vctrs"	"viridis"	"viridisLite"
#> [343]	"vroom"	"waldo"	"warp"
#> [346]	"whisker"	"whoami"	"withr"
#> [349]	"workflows"	"workflowsets"	"xfun"
#> [352]	"xml2"	"xmlparsedata"	"xopen"
#> [355]	"xtable"	"yaml"	"yardstick"
#> [358]	"zip"	"base"	"boot"
#> [361]	"class"	"cluster"	"codetools"
#> [364]	"compiler"	"datasets"	"foreign"
#> [367]	"graphics"	"grDevices"	"grid"
#> [370]	"KernSmooth"	"lattice"	"MASS"
#> [373]	"Matrix"	"methods"	"mgcv"
#> [376]	"nlme"	"nnet"	"parallel"
#> [379]	"rpart"	"spatial"	"splines"

```
#> [382] "stats"          "stats4"         "survival"  
#> [385] "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/>