

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_0.53
#>  [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_1.4.0
#> [13] cli_3.6.5.9000  bibtex_0.5.1     compiler_4.5.1   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.1
#> [21] evaluate_1.0.5   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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unname(installed.packages()[, 1])
```

```
#> [1] "evaluate"      "later"          "ragg"
#> [4] "rProject"      "rprojroot"      "simStateSpace"
#> [7] "testthat"      "textshaping"    "usethis"
#> [10] "V8"            "abind"          "Amelia"
#> [13] "arm"           "arrow"          "ash"
#> [16] "askpass"       "assertthat"     "backports"
#> [19] "base64enc"     "betaDelta"      "betaMC"
#> [22] "betaNB"        "betaSandwich"   "BH"
#> [25] "bibtex"        "BiocManager"    "bit"
#> [28] "bit64"         "bitops"         "blob"
#> [31] "bootStateSpace" "brew"           "brio"
#> [34] "broom"         "bslib"          "cachem"
#> [37] "callr"         "car"            "caracas"
#> [40] "carData"       "cellranger"     "cfr"
#> [43] "checkmate"     "cli"            "clipr"
#> [46] "clock"         "clusterGeneration" "coda"
#> [49] "c0de"          "collections"    "colorspace"
#> [52] "commonmark"    "conflicted"     "corpcor"
#> [55] "covr"          "cowplot"        "cpp11"
#> [58] "crayon"        "credentials"     "crosstalk"
#> [61] "cTMed"         "ctsem"          "curl"
#> [64] "data.table"    "DBI"            "dbplyr"
#> [67] "Deriv"         "desc"           "deSolve"
#> [70] "devtools"      "diagram"        "dials"
#> [73] "DiceDesign"    "diffobj"        "digest"
#> [76] "distributional" "distribro"      "doBy"
#> [79] "docopt"        "doFuture"       "downlit"
#> [82] "dplyr"         "DT"             "dtplyr"
#> [85] "duckdb"        "dynr"           "dynUtils"
#> [88] "ellipse"       "ellipsoids"     "evaluate"
#> [91] "expm"          "fans"           "farver"
#> [94] "fastDummies"   "fastmap"        "fclust"
#> [97] "fda"           "fdrtool"        "fds"
#> [100] "fitDTVARmX"    "FNN"            "fontawesome"
#> [103] "forcats"       "foreach"        "Formula"
#> [106] "fs"            "fst"            "fstcore"
#> [109] "furrr"         "future"         "future.apply"
```

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#> [112] "gargle"           "generics"         "gert"
#> [115] "ggplot2"          "ggrepel"          "gh"
#> [118] "gitcreds"         "glasso"           "glmnet"
#> [121] "globals"          "glue"             "googledrive"
#> [124] "googlesheets4"    "gower"            "GPArotation"
#> [127] "GPfit"            "graphicalVAR"     "gridExtra"
#> [130] "gsubfn"           "gtable"           "gtools"
#> [133] "hardhat"          "haven"            "hdrcde"
#> [136] "here"             "highr"            "Hmisc"
#> [139] "hms"              "htmlTable"        "htmltools"
#> [142] "htmlwidgets"      "httpuv"           "httr"
#> [145] "httr2"            "ids"              "ifaTools"
#> [148] "igraph"           "infer"            "ini"
#> [151] "inline"           "ipred"            "isoband"
#> [154] "iterators"        "jomo"             "jpeg"
#> [157] "jquerylib"        "jsonlite"         "jsonvalidate"
#> [160] "kernlab"          "knitr"            "ks"
#> [163] "labeling"         "Lahman"           "languageserver"
#> [166] "later"            "latex2exp"        "lava"
#> [169] "lavaan"           "lazyeval"         "lhs"
#> [172] "lifecycle"        "lintr"            "listenv"
#> [175] "litedown"         "littler"          "lme4"
#> [178] "locfit"           "longMI"           "loo"
#> [181] "lubridate"        "magick"           "magrittr"
#> [184] "markdown"         "MatrixModels"     "matrixStats"
#> [187] "mclust"           "memoise"          "metaSEM"
#> [190] "metaVAR"          "mice"             "microbenchmark"
#> [193] "mime"             "miniUI"           "minqa"
#> [196] "mitml"            "mize"             "mlVAR"
#> [199] "mnormt"           "modeldata"        "modelenv"
#> [202] "modelr"           "MplusAutomation" "multicool"
#> [205] "mvtnorm"          "nloptr"           "numDeriv"
#> [208] "nycflights13"     "OpenMx"           "openssl"
#> [211] "ordinal"          "pan"              "pander"
#> [214] "parallelly"       "parsnip"          "patchwork"
#> [217] "pbapply"          "pbivnorm"         "pbkrtest"
#> [220] "pcaPP"            "pdftools"         "pillar"
#> [223] "pkgbuild"         "pkgconfig"        "pkgdown"
#> [226] "pkgload"          "plogr"            "plyr"
#> [229] "png"              "posterior"        "pracma"
#> [232] "praise"           "prettyunits"      "printr"
#> [235] "processx"         "prodlim"          "profvis"
#> [238] "progress"         "progressr"        "promises"
#> [241] "proto"            "ps"               "psych"
#> [244] "purrr"            "qgraph"           "qpdf"

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#> [247]	"quadprog"	"quantreg"	"quarto"
#> [250]	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [253]	"R.oo"	"R.utils"	"R2jags"
#> [256]	"R2WinBUGS"	"R6"	"ragg"
#> [259]	"rainbow"	"rappdirs"	"rbibutils"
#> [262]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [265]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [268]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [271]	"Rdpack"	"readr"	"readxl"
#> [274]	"recipes"	"RefManageR"	"reformulas"
#> [277]	"rematch"	"rematch2"	"remotes"
#> [280]	"reprex"	"reshape2"	"reticulate"
#> [283]	"rex"	"rhub"	"rjags"
#> [286]	"rlang"	"RMariaDB"	"rmarkdown"
#> [289]	"roxygen2"	"rpf"	"RPostgres"
#> [292]	"rProject"	"rprojroot"	"rsample"
#> [295]	"RSQLite"	"rstan"	"rstantools"
#> [298]	"rstudioapi"	"rversions"	"rvest"
#> [301]	"Ryacas"	"sass"	"scales"
#> [304]	"selectr"	"semlbci"	"semmccci"
#> [307]	"sessioninfo"	"sfd"	"shape"
#> [310]	"shiny"	"simStateSpace"	"slider"
#> [313]	"snow"	"snowfall"	"sourcetools"
#> [316]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [319]	"StanHeaders"	"stringi"	"stringr"
#> [322]	"styler"	"symSEM"	"sys"
#> [325]	"systemfonts"	"tensorA"	"testthat"
#> [328]	"texreg"	"textshaping"	"tibble"
#> [331]	"tidymodels"	"tidyr"	"tidyselect"
#> [334]	"tidyverse"	"timechange"	"timeDate"
#> [337]	"tinytex"	"tune"	"tzdb"
#> [340]	"ucminf"	"urlchecker"	"usethis"
#> [343]	"utf8"	"uuid"	"V8"
#> [346]	"vctrs"	"viridis"	"viridisLite"
#> [349]	"vroom"	"waldo"	"warp"
#> [352]	"whisker"	"whoami"	"withr"
#> [355]	"workflows"	"workflowsets"	"xfun"
#> [358]	"xml2"	"xmlparsedata"	"xopen"
#> [361]	"xtable"	"yaml"	"yardstick"
#> [364]	"zip"	"base"	"boot"
#> [367]	"class"	"cluster"	"codetools"
#> [370]	"compiler"	"datasets"	"foreign"
#> [373]	"graphics"	"grDevices"	"grid"
#> [376]	"KernSmooth"	"lattice"	"MASS"
#> [379]	"Matrix"	"methods"	"mgcv"

```
#> [382] "nlme"          "nnet"          "parallel"
#> [385] "rpart"         "spatial"       "splines"
#> [388] "stats"        "stats4"        "survival"
#> [391] "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/>