

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.5.2 (2025-10-31)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.3 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_0.0.22
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.54
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.50
#>  [9] timechange_0.3.0 generics_0.1.4   lifecycle_1.0.4  xml2_1.4.1
#> [13] cli_3.6.5.9000  bibtex_0.5.1     compiler_4.5.2   highr_0.11
#> [17] rprojroot_2.1.1  plyr_1.8.9       httr_1.4.7       tools_4.5.2
#> [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] "fitDTVARMxID"      "abind"              "Amelia"
#> [4] "arm"               "arrow"              "ash"
#> [7] "askpass"           "assertthat"         "backports"
#> [10] "base64enc"         "betaDelta"          "betaMC"
#> [13] "betaNB"            "betaSandwich"       "BH"
#> [16] "bibtex"            "BiocManager"        "BiocVersion"
#> [19] "bit"               "bit64"              "bitops"
#> [22] "blob"              "bootStateSpace"     "brew"
#> [25] "brio"              "broom"              "bslib"
#> [28] "cachem"            "callr"              "car"
#> [31] "caracas"           "carData"            "cellranger"
#> [34] "cfr"               "checkmate"          "cli"
#> [37] "clipr"             "clock"              "clusterGeneration"
#> [40] "coda"              "cOde"               "collections"
#> [43] "colorspace"        "commonmark"         "conflicted"
#> [46] "corpcor"           "covr"               "cowplot"
#> [49] "cpp11"             "crayon"             "credentials"
#> [52] "crosstalk"         "cTMed"              "ctsem"
#> [55] "curl"              "data.table"         "DBI"
#> [58] "dbplyr"            "Deriv"              "desc"
#> [61] "deSolve"           "devtools"           "diagram"
#> [64] "dials"             "DiceDesign"         "diffobj"
#> [67] "digest"            "distributional"     "distro"
#> [70] "doBy"              "docopt"             "downlit"
#> [73] "dplyr"             "DT"                 "dtplyr"
#> [76] "duckdb"            "dynr"               "dynUtils"
#> [79] "ellipse"           "ellipsis"           "evaluate"
#> [82] "expm"              "fans"               "farver"
#> [85] "fastDummies"       "fastmap"            "fclust"
#> [88] "fda"               "fdrtool"            "fds"
#> [91] "fitDTVARMxID"      "FNN"                "fontawesome"
#> [94] "forcats"           "foreach"            "Formula"
#> [97] "fs"                "fst"                "fstcore"
#> [100] "furrr"             "future"             "future.apply"
#> [103] "gargle"            "generics"           "gert"
#> [106] "ggplot2"           "ggrepel"            "gh"
#> [109] "gitcreds"          "glasso"             "glmnet"
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#> [112] "globals"           "glue"               "googledrive"
#> [115] "googlesheets4"     "gower"              "GPArotation"
#> [118] "GPfit"             "graphicalVAR"       "gridExtra"
#> [121] "gsubfn"            "gtable"             "gtools"
#> [124] "hardhat"           "haven"              "hdcrcde"
#> [127] "here"              "highr"              "Hmisc"
#> [130] "hms"               "htmlTable"          "htmltools"
#> [133] "htmlwidgets"       "httpuv"             "httr"
#> [136] "httr2"             "ids"                "ifaTools"
#> [139] "igraph"            "infer"              "ini"
#> [142] "inline"            "ipred"              "isoband"
#> [145] "iterators"         "jomo"               "jpeg"
#> [148] "jquerylib"         "jsonlite"           "jsonvalidate"
#> [151] "kernlab"           "knitr"              "ks"
#> [154] "labeling"          "Lahman"             "languageserver"
#> [157] "later"             "latex2exp"          "lava"
#> [160] "lavaan"            "lazyeval"           "lhs"
#> [163] "lifecycle"         "lintr"              "listenv"
#> [166] "litedown"          "littler"            "lme4"
#> [169] "locfit"            "longMI"             "loo"
#> [172] "lubridate"         "magick"             "magrittr"
#> [175] "markdown"          "MatrixModels"       "matrixStats"
#> [178] "mclust"            "memoise"            "metaSEM"
#> [181] "metaVAR"           "mice"               "microbenchmark"
#> [184] "mime"              "miniUI"             "minqa"
#> [187] "mitml"             "mize"               "mlVAR"
#> [190] "mnormt"            "modeldata"          "modelenv"
#> [193] "modelr"            "MplusAutomation"   "multicool"
#> [196] "mvtnorm"           "nloptr"             "numDeriv"
#> [199] "nycflights13"      "OpenMx"             "openssl"
#> [202] "ordinal"           "otel"               "pan"
#> [205] "pander"            "parallelly"         "parsnip"
#> [208] "patchwork"         "pbapply"            "pbivnorm"
#> [211] "pbkrtest"          "pcaPP"              "pdftools"
#> [214] "pillar"            "pkgbuild"           "pkgconfig"
#> [217] "pkgdown"           "pkgload"            "plogr"
#> [220] "plyr"              "png"                "posterior"
#> [223] "pracma"            "praise"             "prettyunits"
#> [226] "printr"            "processx"           "proclim"
#> [229] "profvis"           "progress"           "progressr"
#> [232] "promises"          "proto"              "ps"
#> [235] "psych"             "purrr"              "qgraph"
#> [238] "qpdf"              "quadprog"           "quantreg"
#> [241] "quarto"            "QuickJSR"           "R.cache"
#> [244] "R.methodsS3"       "R.oo"               "R.utils"

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#> [247] "R2jags"          "R2WinBUGS"      "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] "reformulas"      "rematch"        "rematch2"
#> [271] "remotes"         "reprex"         "reshape2"
#> [274] "reticulate"      "rex"            "rhdf5"
#> [277] "rhdf5filters"    "Rhdf5lib"       "rhub"
#> [280] "rjags"           "rlang"          "RMariaDB"
#> [283] "rmarkdown"       "roxygen2"       "rpf"
#> [286] "RPostgres"       "rProject"       "rprojroot"
#> [289] "rsample"         "RSQLite"        "rstan"
#> [292] "rstantools"      "rstudioapi"     "rversions"
#> [295] "rvest"           "Ryacas"         "S7"
#> [298] "sass"           "scales"         "selectr"
#> [301] "semlbci"         "semmccci"       "sessioninfo"
#> [304] "sfd"            "shape"          "shiny"
#> [307] "simStateSpace"   "slider"         "snow"
#> [310] "snowfall"        "sourcetools"    "SparseM"
#> [313] "sparsevctrs"     "SQUAREM"        "StanHeaders"
#> [316] "stringi"         "stringr"        "styler"
#> [319] "symSEM"          "sys"            "systemfonts"
#> [322] "tailor"          "tensorA"        "testthat"
#> [325] "texreg"          "textshaping"    "tibble"
#> [328] "tidymodels"      "tidyr"          "tidyselect"
#> [331] "tidyverse"       "timechange"     "timeDate"
#> [334] "tinytex"         "tune"           "tzdb"
#> [337] "ucminf"          "urlchecker"     "usethis"
#> [340] "utf8"            "uuid"           "V8"
#> [343] "vctrs"           "viridisLite"    "vroom"
#> [346] "waldo"           "warp"           "whisker"
#> [349] "whoami"          "withr"          "workflows"
#> [352] "workflowsets"    "xfun"           "xml2"
#> [355] "xmlparsedata"    "xopen"          "xtable"
#> [358] "yaml"            "yardstick"      "zip"
#> [361] "base"            "boot"           "class"
#> [364] "cluster"         "codetools"      "compiler"
#> [367] "datasets"        "foreign"        "graphics"
#> [370] "grDevices"       "grid"           "KernSmooth"
#> [373] "lattice"         "MASS"           "Matrix"
#> [376] "methods"         "mgcv"           "nlme"
#> [379] "nnet"            "parallel"       "rpart"

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```
#> [382] "spatial"      "splines"      "stats"
#> [385] "stats4"       "survival"     "tcltk"
#> [388] "tools"        "utils"
```

## References

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>