

# 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_0.0.23
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.6.1         lubridate_1.9.4  xfun_0.55
#>  [5] magrittr_2.0.4   glue_1.8.0       stringr_1.6.0    knitr_1.51
#>  [9] timechange_0.3.0 generics_0.1.4    lifecycle_1.0.5  xml2_1.5.1
#> [13] cli_3.6.5.9000   bibtex_0.5.1     compiler_4.5.2   plyr_1.8.9
#> [17] highr_0.11       rprojroot_2.1.1  httr_1.4.7       tools_4.5.2
#> [21] evaluate_1.0.5   Rcpp_1.1.1       RefManageR_1.4.0 otel_0.2.0
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#> [25] rlang_1.1.7      jsonlite_2.0.0    stringi_1.8.7
```

## Packages

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unname(installed.packages()[, 1])
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```
#> [1] "cfr"      "devtools"  "fitDTVARMxID"
#> [4] "gert"     "rProject"  "testthat"
#> [7] "tibble"   "tinytex"   "abind"
#> [10] "Amelia"   "arm"        "arrow"
#> [13] "ash"      "AsioHeaders" "askpass"
#> [16] "assertthat" "backports" "base64enc"
#> [19] "betaDelta" "betaMC"     "betaNB"
#> [22] "betaSandwich" "BH"         "bibtex"
#> [25] "BiocManager" "BiocVersion" "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" "distro"     "doBy"
#> [79] "docopt"    "downlit"    "dplyr"
#> [82] "DT"        "dtplyr"     "duckdb"
#> [85] "dynr"      "dynUtils"   "ellipse"
#> [88] "ellipsis"  "evaluate"   "expm"
#> [91] "fans"      "farver"     "fastDummies"
#> [94] "fastmap"   "fclust"     "fda"
#> [97] "fdrtool"   "fds"        "fitDTVARMxID"
#> [100] "FNN"       "fontawesome" "forcats"
#> [103] "foreach"   "forecast"   "Formula"
#> [106] "fracdiff"  "fs"         "fst"
#> [109] "fstcore"   "frrrr"      "future"
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#> [112] "future.apply"      "gargle"             "generics"
#> [115] "gert"              "ggplot2"            "ggrepel"
#> [118] "gh"                "gitcreds"           "glasso"
#> [121] "glmnet"            "globals"            "glue"
#> [124] "googledrive"       "googlesheets4"      "gower"
#> [127] "GPArotation"       "GPfit"              "graphicalVAR"
#> [130] "gridExtra"         "gsubfn"             "gtable"
#> [133] "gtools"            "hardhat"            "haven"
#> [136] "hdrcde"            "here"               "highr"
#> [139] "Hmisc"             "hms"                "htmlTable"
#> [142] "htmltools"         "htmlwidgets"        "httpgd"
#> [145] "httpuv"            "httr"               "httr2"
#> [148] "ids"               "ifaTools"           "igraph"
#> [151] "infer"             "ini"                "inline"
#> [154] "ipred"             "isoband"            "iterators"
#> [157] "jomo"              "jpeg"               "jquerylib"
#> [160] "jsonlite"          "jsonvalidate"        "kernlab"
#> [163] "knitr"             "ks"                 "labeling"
#> [166] "Lahman"            "languageserver"     "later"
#> [169] "latex2exp"         "lava"               "lavaan"
#> [172] "lazyeval"          "lhs"                "lifecycle"
#> [175] "lintr"             "listenv"            "litedown"
#> [178] "littler"           "lme4"               "lmtest"
#> [181] "locfit"            "longMI"             "loo"
#> [184] "lubridate"         "magick"             "magrittr"
#> [187] "markdown"          "MatrixModels"       "matrixStats"
#> [190] "mclust"            "memoise"            "metaSEM"
#> [193] "metaVAR"           "mice"               "microbenchmark"
#> [196] "mime"              "miniUI"             "minqa"
#> [199] "mitml"             "mize"               "mlVAR"
#> [202] "mnormt"            "modeldata"          "modelenv"
#> [205] "modelr"            "MplusAutomation"    "multicool"
#> [208] "mvtnorm"           "nloptr"             "numDeriv"
#> [211] "nycflights13"      "OpenMx"             "openssl"
#> [214] "ordinal"           "otel"               "pan"
#> [217] "pander"            "parallelly"         "parsnip"
#> [220] "patchwork"         "pbapply"            "pbivnorm"
#> [223] "pbkrtest"          "pcaPP"              "pdftools"
#> [226] "pillar"            "pkgbuild"           "pkgconfig"
#> [229] "pkgdown"           "pkgload"            "plogr"
#> [232] "plyr"              "png"                "posterior"
#> [235] "pracma"            "praise"             "prettyunits"
#> [238] "printr"            "processx"           "prodlim"
#> [241] "profvis"           "progress"           "progressr"
#> [244] "promises"          "proto"              "ps"

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#> [247]	"psych"	"purrr"	"qgraph"
#> [250]	"qpdf"	"quadprog"	"quantmod"
#> [253]	"quantreg"	"quarto"	"QuickJSR"
#> [256]	"R.cache"	"R.methodsS3"	"R.oo"
#> [259]	"R.utils"	"R2jags"	"R2WinBUGS"
#> [262]	"R6"	"ragg"	"rainbow"
#> [265]	"rappdirs"	"rbibutils"	"rcmdcheck"
#> [268]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"
#> [271]	"RcppEigen"	"RcppGSL"	"RcppParallel"
#> [274]	"RcppTOML"	"RCurl"	"Rdpack"
#> [277]	"readr"	"readxl"	"recipes"
#> [280]	"RefManagerR"	"reformulas"	"rematch"
#> [283]	"rematch2"	"remotes"	"reprex"
#> [286]	"reshape2"	"reticulate"	"rex"
#> [289]	"rhdf5"	"rhdf5filters"	"Rhdf5lib"
#> [292]	"rhub"	"rjags"	"rlang"
#> [295]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [298]	"rpf"	"RPostgres"	"rProject"
#> [301]	"rprojroot"	"rsample"	"RSQLite"
#> [304]	"rstan"	"rstantools"	"rstudioapi"
#> [307]	"rversions"	"rvest"	"Ryacass"
#> [310]	"S7"	"sass"	"scales"
#> [313]	"selectr"	"semlbci"	"semmccci"
#> [316]	"sessioninfo"	"sfd"	"shape"
#> [319]	"shiny"	"simStateSpace"	"slider"
#> [322]	"snow"	"snowfall"	"sourcetools"
#> [325]	"SparseM"	"sparsevctrs"	"SQUAREM"
#> [328]	"StanHeaders"	"stringi"	"stringr"
#> [331]	"styler"	"symSEM"	"sys"
#> [334]	"systemfonts"	"tailor"	"tensorA"
#> [337]	"testthat"	"texreg"	"textshaping"
#> [340]	"tibble"	"tidymodels"	"tidyr"
#> [343]	"tidyselect"	"tidyverse"	"timechange"
#> [346]	"timeDate"	"tinytex"	"tseries"
#> [349]	"TTR"	"tune"	"tzdb"
#> [352]	"ucminf"	"unigd"	"urca"
#> [355]	"urlchecker"	"usethis"	"utf8"
#> [358]	"uuid"	"V8"	"vctrs"
#> [361]	"viridisLite"	"vroom"	"waldo"
#> [364]	"warp"	"whisker"	"whoami"
#> [367]	"withr"	"workflows"	"workflowsets"
#> [370]	"xfun"	"xml2"	"xmlparsedata"
#> [373]	"xopen"	"xtable"	"xts"
#> [376]	"yaml"	"yardstick"	"zip"
#> [379]	"zoo"	"base"	"boot"

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#> [382] "class"          "cluster"        "codetools"
#> [385] "compiler"       "datasets"        "foreign"
#> [388] "graphics"       "grDevices"       "grid"
#> [391] "KernSmooth"     "lattice"         "MASS"
#> [394] "Matrix"         "methods"         "mgcv"
#> [397] "nlme"           "nnet"            "parallel"
#> [400] "rpart"          "spatial"         "splines"
#> [403] "stats"          "stats4"          "survival"
#> [406] "tcltk"          "tools"           "utils"

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## 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/>