

# 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 22.04.4 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 3.10.0
#>
#> 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.46
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.48
#>  [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000  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_0.24.0  Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
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#> [25] jsonlite_1.8.8   stringi_1.8.4
```

## Packages

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

```
#> [1] "devtools"      "fitCTVARMx"    "gert"          "httr2"
#> [5] "quarto"        "Rcpp"          "rProject"      "tinytex"
#> [9] "xfun"          "abind"         "arrow"         "ash"
#> [13] "AsioHeaders"   "askpass"       "assertthat"    "backports"
#> [17] "base64enc"     "betaDelta"     "betaMC"        "betaNB"
#> [21] "betaSandwich"  "BH"            "bibtex"        "BiocManager"
#> [25] "bit"           "bit64"         "bitops"        "blob"
#> [29] "brew"          "brio"          "broom"         "bslib"
#> [33] "cachem"        "callr"         "car"           "caracas"
#> [37] "carData"       "cellranger"    "cfrfr"         "checkmate"
#> [41] "cli"           "clipr"         "clock"         "coda"
#> [45] "c0de"          "collections"   "colorspace"    "commonmark"
#> [49] "conflicted"    "corpcor"       "covr"          "cowplot"
#> [53] "cpp11"         "crayon"        "credentials"    "crosstalk"
#> [57] "cTMed"         "ctsem"         "curl"          "cyclocomp"
#> [61] "data.table"    "DBI"           "dbplyr"        "Deriv"
#> [65] "desc"          "deSolve"       "devtools"      "diagram"
#> [69] "dials"         "DiceDesign"    "diffobj"       "digest"
#> [73] "distributional" "distro"        "doBy"          "docopt"
#> [77] "doFuture"      "downlit"       "dplyr"         "DT"
#> [81] "dtplyr"        "duckdb"        "dynr"          "dynUtils"
#> [85] "ellipse"       "ellipsis"      "evaluate"      "expm"
#> [89] "fansI"         "farver"        "fastDummies"   "fastmap"
#> [93] "fclust"        "fda"           "fdrtool"       "fds"
#> [97] "fitCTVARMx"    "fitDTVARMx"    "FNN"           "fontawesome"
#> [101] "forcats"       "foreach"       "Formula"       "fs"
#> [105] "fst"           "fstcore"       "furry"         "future"
#> [109] "future.apply"  "gargle"        "generics"      "gert"
#> [113] "ggplot2"       "ggrepel"       "gh"            "gitcreds"
#> [117] "glasso"        "glmnet"        "globals"       "glue"
#> [121] "googledrive"   "googlesheets4" "gower"         "GPArotation"
#> [125] "GPfit"         "gridExtra"     "gsubfn"        "gtable"
#> [129] "gtools"        "hardhat"       "haven"         "hdcrcde"
#> [133] "here"          "highr"         "Hmisc"         "hms"
#> [137] "htmlTable"     "htmltools"     "htmlwidgets"   "httpgd"
#> [141] "httpuv"        "httr"          "httr2"         "ids"
#> [145] "ifftools"      "igraph"        "infer"         "ini"
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#> [149] "inline"          "ipred"           "isoband"         "iterators"
#> [153] "jomo"            "jpeg"            "jquerylib"       "jsonlite"
#> [157] "jsonvalidate"    "kernlab"         "knitr"           "ks"
#> [161] "labeling"        "Lahman"          "languageserver"  "later"
#> [165] "latex2exp"       "lava"            "lavaan"          "lazyeval"
#> [169] "lhs"             "lifecycle"       "lintr"           "listenv"
#> [173] "littler"         "lme4"            "locfit"          "longMI"
#> [177] "loo"             "lubridate"       "magick"          "magrittr"
#> [181] "markdown"        "MatrixModels"    "matrixStats"     "mclust"
#> [185] "memoise"         "metaSEM"         "metaVAR"         "mice"
#> [189] "microbenchmark" "mime"            "miniUI"          "minqa"
#> [193] "mitml"           "mize"            "mnormt"          "modeldata"
#> [197] "modelenv"        "modelr"          "MplusAutomation" "multicool"
#> [201] "munsell"         "mvtnorm"         "nloptr"          "numDeriv"
#> [205] "nycflights13"    "OpenMx"          "openssl"         "ordinal"
#> [209] "pan"             "pander"          "parallelly"      "parsnip"
#> [213] "patchwork"       "pbapply"         "pbivnorm"        "pbkrtest"
#> [217] "pcaPP"           "pdftools"        "pillar"          "pkgbuild"
#> [221] "pkgconfig"       "pkgdown"         "pkgload"         "plogr"
#> [225] "plyr"            "png"             "posterior"       "pracma"
#> [229] "praise"          "prettyunits"     "printr"          "processx"
#> [233] "prodlim"         "profvis"         "progress"        "progressr"
#> [237] "promises"        "proto"           "ps"              "psych"
#> [241] "purrr"           "qgraph"          "qpdf"            "quadprog"
#> [245] "quantreg"        "quarto"          "QuickJSR"        "R.cache"
#> [249] "R.methodsS3"     "R.oo"            "R.utils"         "R6"
#> [253] "ragg"            "rainbow"         "rappdirs"        "rbibutils"
#> [257] "rcmdcheck"       "RColorBrewer"    "Rcpp"            "RcppArmadillo"
#> [261] "RcppEigen"       "RcppGSL"         "RcppParallel"    "RcppTOML"
#> [265] "RCurl"           "Rdpack"          "readr"           "readxl"
#> [269] "recipes"        "RefManageR"      "rematch"         "rematch2"
#> [273] "remotes"         "reprex"          "reshape2"        "reticulate"
#> [277] "rex"            "rhub"            "rlang"           "RMariaDB"
#> [281] "rmarkdown"       "roxygen2"        "rpf"             "RPostgres"
#> [285] "rProject"        "rprojroot"       "rsample"         "RSQLite"
#> [289] "rstan"           "rstantools"      "rstudioapi"      "rversions"
#> [293] "rvest"           "Ryacas"          "sass"            "scales"
#> [297] "selectr"         "semlbci"         "semmcci"         "sessioninfo"
#> [301] "shape"           "shiny"           "simStateSpace"   "slider"
#> [305] "snow"           "snowfall"        "sourcetools"     "SparseM"
#> [309] "SQUAREM"        "StanHeaders"     "statmod"         "stringi"
#> [313] "stringr"         "styler"          "symSEM"          "sys"
#> [317] "systemfonts"     "tensorA"         "testthat"        "texreg"
#> [321] "textshaping"     "tibble"          "tidymodels"      "tidyr"
#> [325] "tidyselect"      "tidyverse"       "timechange"       "timeDate"

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#> [329] "tinytex"      "tune"          "tzdb"          "ucminf"
#> [333] "unigd"        "urlchecker"    "usethis"       "utf8"
#> [337] "uuid"         "v8"            "vctrs"         "viridis"
#> [341] "viridisLite"  "vroom"         "waldo"         "warp"
#> [345] "whisker"      "whoami"        "withr"         "workflows"
#> [349] "workflowsets" "xfun"          "xml2"          "xmlparsedata"
#> [353] "xopen"        "xtable"        "yaml"          "yardstick"
#> [357] "zip"          "base"          "boot"          "class"
#> [361] "cluster"      "codetools"     "compiler"      "datasets"
#> [365] "foreign"      "graphics"      "grDevices"     "grid"
#> [369] "KernSmooth"  "lattice"       "MASS"          "Matrix"
#> [373] "methods"     "mgcv"          "nlme"          "nnet"
#> [377] "parallel"     "rpart"         "spatial"       "splines"
#> [381] "stats"        "stats4"        "survival"      "tcltk"
#> [385] "tools"        "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/>