

# Session Info

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## Session

```
sessionInfo()  
  
#> R version 4.4.0 (2024-04-24)  
#> 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-p0.3.20.so; LAPACK version 3.10.3  
#>  
#> 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
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#> 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_0.44
#> [5] magrittr_2.0.3  glue_1.7.0    stringr_1.5.1   knitr_1.47
#> [9] timechange_0.3.0 generics_0.1.3 lifecycle_1.0.4 xml2_1.3.6
#> [13] cli_3.6.2.9000  bibtex_0.5.1  compiler_4.4.0  highr_0.11
#> [17] rprojroot_2.0.4 plyr_1.8.9    httr_1.4.7      tools_4.4.0
#> [21] evaluate_0.23   Rcpp_1.0.12   RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8  stringi_1.8.4

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## Packages

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

#> [1] "betaNB"      "abind"       "arrow"       "ash"
#> [5] "AsioHeaders" "askpass"     "assertthat"  "backports"
#> [9] "base64enc"   "betaDelta"   "betaMC"      "betaNB"
#> [13] "betaSandwich" "BH"          "bibtex"      "BiocManager"
#> [17] "bit"         "bit64"       "bitops"      "blob"
#> [21] "brew"        "brio"        "broom"       "bslib"

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#> [25] "cachem"      "callr"      "car"        "caracas"
#> [29] "carData"     "cellranger" "cffr"       "checkmate"
#> [33] "cli"         "clipr"      "clock"      "coda"
#> [37] "c0de"        "collections" "colorspace" "commonmark"
#> [41] "conflicted"  "corpcor"    "covr"       "cowplot"
#> [45] "cpp11"       "crayon"     "credentials" "crosstalk"
#> [49] "cTMed"       "ctsem"      "curl"       "cyclocomp"
#> [53] "data.table"  "DBI"        "dbplyr"     "Deriv"
#> [57] "desc"        "deSolve"    "devtools"   "diagram"
#> [61] "dials"       "DiceDesign" "diffobj"    "digest"
#> [65] "distributional" "distro"    "doBy"       "docopt"
#> [69] "doFuture"    "downlit"    "dplyr"      "DT"
#> [73] "dtplyr"      "duckdb"     "dynr"       "dynUtils"
#> [77] "ellipse"     "ellipsis"   "evaluate"   "expm"
#> [81] "fansi"       "farver"     "fastDummies" "fastmap"
#> [85] "fclust"      "fda"        "fdrtool"    "fds"
#> [89] "FNN"         "fontawesome" "forcats"    "foreach"
#> [93] "Formula"     "fs"         "fst"        "fstcore"
#> [97] "furry"       "future"     "future.apply" "gargle"
#> [101] "generics"    "gert"       "ggplot2"    "ggrepel"
#> [105] "gh"          "gitcreds"   "glasso"     "glmnet"
#> [109] "globals"     "glue"       "googledrive" "googlesheets4"
#> [113] "gower"       "GPfit"      "gridExtra"  "gsubfn"
#> [117] "gtable"      "gtools"     "hardhat"    "haven"
#> [121] "hdcrcde"     "here"       "highr"      "Hmisc"
#> [125] "hms"         "htmlTable"  "htmltools"  "htmlwidgets"
#> [129] "httpgd"      "httpuv"     "httr"       "httr2"

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|          |                  |                |                   |                  |
|----------|------------------|----------------|-------------------|------------------|
| #> [133] | "ids"            | "ifaTools"     | "igraph"          | "infer"          |
| #> [137] | "ini"            | "inline"       | "ipred"           | "isoband"        |
| #> [141] | "iterators"      | "jomo"         | "jpeg"            | "jquerylib"      |
| #> [145] | "jsonlite"       | "jsonvalidate" | "kernlab"         | "knitr"          |
| #> [149] | "ks"             | "labeling"     | "Lahman"          | "languageserver" |
| #> [153] | "later"          | "latex2exp"    | "lava"            | "lavaan"         |
| #> [157] | "lazyeval"       | "lhs"          | "lifecycle"       | "lintr"          |
| #> [161] | "listenv"        | "littler"      | "lme4"            | "locfit"         |
| #> [165] | "longMI"         | "loo"          | "lubridate"       | "magick"         |
| #> [169] | "magrittr"       | "markdown"     | "MatrixModels"    | "matrixStats"    |
| #> [173] | "mclust"         | "memoise"      | "metaSEM"         | "mice"           |
| #> [177] | "microbenchmark" | "mime"         | "miniUI"          | "minqa"          |
| #> [181] | "mitml"          | "mize"         | "mnormt"          | "modeldata"      |
| #> [185] | "modelenv"       | "modelr"       | "MplusAutomation" | "multicool"      |
| #> [189] | "munsell"        | "mvtnorm"      | "nloptr"          | "numDeriv"       |
| #> [193] | "nycflights13"   | "OpenMx"       | "openssl"         | "ordinal"        |
| #> [197] | "pan"            | "pander"       | "parallelly"      | "parsnip"        |
| #> [201] | "patchwork"      | "pbapply"      | "pbivnorm"        | "pbkrtest"       |
| #> [205] | "pcaPP"          | "pdftools"     | "pillar"          | "pkgbuild"       |
| #> [209] | "pkgconfig"      | "pkgdown"      | "pkgload"         | "plogr"          |
| #> [213] | "plyr"           | "png"          | "posterior"       | "pracma"         |
| #> [217] | "praise"         | "prettyunits"  | "printr"          | "processx"       |
| #> [221] | "prodlim"        | "profvis"      | "progress"        | "progressr"      |
| #> [225] | "promises"       | "proto"        | "ps"              | "psych"          |
| #> [229] | "purrr"          | "qgraph"       | "qpdf"            | "quadprog"       |
| #> [233] | "quantreg"       | "quarto"       | "QuickJSR"        | "R.cache"        |
| #> [237] | "R.methodsS3"    | "R.oo"         | "R.utils"         | "R6"             |

|          |                |                |                 |                 |
|----------|----------------|----------------|-----------------|-----------------|
| #> [241] | "ragg"         | "rainbow"      | "rappdirs"      | "rbibutils"     |
| #> [245] | "rcmdcheck"    | "RColorBrewer" | "Rcpp"          | "RcppArmadillo" |
| #> [249] | "RcppEigen"    | "RcppGSL"      | "RcppParallel"  | "RcppTOML"      |
| #> [253] | "RCurl"        | "Rdpack"       | "readr"         | "readxl"        |
| #> [257] | "recipes"      | "RefManageR"   | "rematch"       | "rematch2"      |
| #> [261] | "remotes"      | "reprex"       | "reshape2"      | "reticulate"    |
| #> [265] | "rex"          | "rhub"         | "rlang"         | "RMariaDB"      |
| #> [269] | "rmarkdown"    | "roxygen2"     | "rpf"           | "RPostgres"     |
| #> [273] | "rProject"     | "rprojroot"    | "rsample"       | "RSQLite"       |
| #> [277] | "rstan"        | "rstantools"   | "rstudioapi"    | "rversions"     |
| #> [281] | "rvest"        | "Ryacas"       | "sass"          | "scales"        |
| #> [285] | "selectr"      | "semlbci"      | "semmcci"       | "sessioninfo"   |
| #> [289] | "shape"        | "shiny"        | "simStateSpace" | "slider"        |
| #> [293] | "snow"         | "snowfall"     | "sourcetools"   | "SparseM"       |
| #> [297] | "SQUAREM"      | "StanHeaders"  | "statmod"       | "stringi"       |
| #> [301] | "stringr"      | "styler"       | "symSEM"        | "sys"           |
| #> [305] | "systemfonts"  | "tensorA"      | "testthat"      | "texreg"        |
| #> [309] | "textshaping"  | "tibble"       | "tidymodels"    | "tidyr"         |
| #> [313] | "tidyselect"   | "tidyverse"    | "timechange"    | "timeDate"      |
| #> [317] | "tinytex"      | "tune"         | "tzdb"          | "ucminf"        |
| #> [321] | "unigd"        | "urlchecker"   | "usethis"       | "utf8"          |
| #> [325] | "uuid"         | "V8"           | "vctrs"         | "viridis"       |
| #> [329] | "viridisLite"  | "vroom"        | "waldo"         | "warp"          |
| #> [333] | "whisker"      | "whoami"       | "withr"         | "workflows"     |
| #> [337] | "workflowsets" | "xfun"         | "xml2"          | "xmlparsedata"  |
| #> [341] | "xopen"        | "xtable"       | "yaml"          | "yardstick"     |
| #> [345] | "zip"          | "base"         | "boot"          | "class"         |

```
#> [349] "cluster"      "codetools"    "compiler"     "datasets"
#> [353] "foreign"      "graphics"     "grDevices"    "grid"
#> [357] "KernSmooth"  "lattice"      "MASS"         "Matrix"
#> [361] "methods"     "mgcv"         "nlme"         "nnet"
#> [365] "parallel"    "rpart"        "spatial"      "splines"
#> [369] "stats"       "stats4"       "survival"     "tcltk"
#> [373] "tools"       "utils"
```

## References

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>