

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.3.1 (2023-06-16)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> Running under: Ubuntu 22.04.3 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-r0.3.20.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
#> tzcode source: system (glibc)
#>
#> attached base packages:
#> [1] stats      graphics  grDevices  utils      datasets  methods   base
#>
#> other attached packages:
#> [1] rProject_0.0.5
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1   R6_2.5.1          lubridate_1.9.3   xfun_0.40
#>  [5] magrittr_2.0.3    glue_1.6.2        stringr_1.5.0     knitr_1.44
#>  [9] timechange_0.2.0  generics_0.1.3    lifecycle_1.0.3   xml2_1.3.5
#> [13] cli_3.6.1.9000    bibtex_0.5.1      compiler_4.3.1    plyr_1.8.9
#> [17] highr_0.10        rprojroot_2.0.3   httr_1.4.7        rstudioapi_0.15.0
#> [21] tools_4.3.1       evaluate_0.22     Rcpp_1.0.11       RefManageR_1.4.0
```

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#> [25] rlang_1.1.1      jsonlite_1.8.7    stringi_1.7.12
```

## Packages

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

```
#> [1] "crosstalk"      "DT"             "fitOU"          "RcppArmadillo"
#> [5] "simStateSpace" "abind"          "arrow"          "ash"
#> [9] "askpass"        "assertthat"    "backports"      "base64enc"
#> [13] "betaDelta"      "betaMC"        "betaNB"         "betaSandwich"
#> [17] "BH"             "bibtex"        "BiocManager"    "bit"
#> [21] "bit64"          "bitops"        "blob"           "brew"
#> [25] "brio"           "broom"         "bslib"          "cachem"
#> [29] "callr"          "car"           "carData"        "cellranger"
#> [33] "cffi"           "checkmate"     "cli"            "clipr"
#> [37] "clock"          "collections"   "colorspace"     "commonmark"
#> [41] "conflicted"     "corpcor"       "covr"           "cpp11"
#> [45] "crayon"         "credentials"   "curl"           "cyclocomp"
#> [49] "data.table"     "DBI"           "dbplyr"         "desc"
#> [53] "deSolve"        "devtools"      "diagram"        "dials"
#> [57] "DiceDesign"     "diffobj"       "digest"         "distrib"
#> [61] "docopt"         "downlit"       "dplyr"          "dtplyr"
#> [65] "duckdb"         "dynr"          "ellipsis"       "evaluate"
#> [69] "fans"          "farver"        "fastmap"        "fclust"
#> [73] "fda"            "fdrtool"       "fds"            "FNN"
#> [77] "fontawesome"    "forcats"       "foreach"        "Formula"
#> [81] "fs"             "fst"           "fstcore"        "furrr"
#> [85] "future"         "future.apply"  "gargle"         "generics"
#> [89] "gert"           "ggplot2"       "gh"             "gitcreds"
#> [93] "glasso"         "glmnet"        "globals"        "glue"
#> [97] "googledrive"    "googlesheets4" "gower"          "GPfit"
#> [101] "gridExtra"      "gtable"        "gtools"         "hardhat"
#> [105] "haven"          "hdbc"          "highr"          "Hmisc"
#> [109] "hms"            "htmlTable"     "htmltools"      "htmlwidgets"
#> [113] "httpgd"         "httpuv"        "httr"           "httr2"
#> [117] "ids"            "ifftools"      "igraph"         "infer"
#> [121] "ini"            "ipred"         "isoband"        "iterators"
#> [125] "jomo"           "jpeg"          "jquerylib"      "jsonlite"
#> [129] "jsonvalidate"   "kernlab"       "knitr"          "ks"
#> [133] "labeling"       "Lahman"        "languageserver" "later"
#> [137] "latex2exp"      "lava"          "lavaan"         "lazyeval"
#> [141] "lhs"            "lifecycle"     "lintr"          "listenv"
#> [145] "littler"        "lme4"          "locfit"         "lubridate"
```

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#> [149] "magick"          "magrittr"      "markdown"      "Matrix"
#> [153] "MatrixModels"   "mclust"        "memoise"       "mice"
#> [157] "microbenchmark" "mime"          "miniUI"        "minqa"
#> [161] "misc3d"         "mitml"         "mnormt"        "modeldata"
#> [165] "modelenv"       "modelr"        "multicool"     "munsell"
#> [169] "mvtnorm"        "nloptr"        "numDeriv"      "nycflights13"
#> [173] "OpenMx"         "openssl"       "ordinal"       "packrat"
#> [177] "pan"            "parallelly"    "parsedate"     "parsnip"
#> [181] "patchwork"      "pbapply"       "pbivnorm"      "pbkrtest"
#> [185] "pcaPP"          "pdftools"      "pillar"        "pkgbuild"
#> [189] "pkgconfig"      "pkgdown"       "pkgload"       "plogr"
#> [193] "plot3D"         "plyr"          "png"           "pracma"
#> [197] "praise"         "prettyunits"   "printr"        "processx"
#> [201] "prodlim"        "profvis"       "progress"      "progressr"
#> [205] "promises"       "ps"            "psych"         "purrr"
#> [209] "qgraph"         "qpdf"          "quadprog"      "quantreg"
#> [213] "quarto"         "R.cache"       "R.methodsS3"   "R.oo"
#> [217] "R.utils"        "R6"            "ragg"          "rainbow"
#> [221] "rappdirs"       "rbibutils"     "rcmdcheck"     "RColorBrewer"
#> [225] "Rcpp"           "RcppArmadillo" "RcppEigen"     "RcppGSL"
#> [229] "RcppParallel"   "RCurl"         "Rdpack"        "readr"
#> [233] "readxl"         "recipes"       "RefManageR"    "rematch"
#> [237] "rematch2"       "remotes"       "renv"          "reprex"
#> [241] "reshape2"       "rex"           "rhub"          "rlang"
#> [245] "RMariaDB"       "rmarkdown"     "roxygen2"      "rpf"
#> [249] "RPostgres"      "rProject"       "rprojroot"     "rsample"
#> [253] "rsconnect"      "RSQLite"       "rstudioapi"    "rversions"
#> [257] "rvest"          "Ryacas"        "sass"          "scales"
#> [261] "selectr"        "semmccci"      "sessioninfo"   "shape"
#> [265] "shiny"          "slider"        "snow"          "snowfall"
#> [269] "sourcetools"    "SparseM"       "SQUAREM"       "StanHeaders"
#> [273] "stringi"        "stringr"       "styler"        "sys"
#> [277] "systemfonts"    "testthat"      "textshaping"   "tibble"
#> [281] "tidymodels"     "tidyr"         "tidyselect"    "tidyverse"
#> [285] "timechange"     "timeDate"      "tinytex"       "tune"
#> [289] "tzdb"          "ucminf"        "urlchecker"    "usethis"
#> [293] "utf8"          "uuid"          "V8"            "vctrs"
#> [297] "viridis"        "viridisLite"   "vroom"         "waldo"
#> [301] "warp"           "whisker"       "whoami"        "withr"
#> [305] "workflows"      "workflowsets"  "xfun"          "xml2"
#> [309] "xmlparsedata"   "xopen"         "xtable"        "yaml"
#> [313] "yardstick"      "zip"           "base"          "boot"
#> [317] "class"          "cluster"       "codetools"     "compiler"
#> [321] "datasets"       "foreign"       "graphics"      "grDevices"
#> [325] "grid"           "KernSmooth"    "lattice"       "MASS"

```

```
#> [329] "Matrix"          "methods"         "mgcv"            "nlme"
#> [333] "nnet"            "parallel"         "rpart"           "spatial"
#> [337] "splines"         "stats"            "stats4"          "survival"
#> [341] "tcltk"           "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/>