

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

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

```

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