

# 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_1.9.2    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_1.8.8
#> [17] highr_0.10        rprojroot_2.0.3   httr_1.4.7         rstudioapi_0.15.0
#> [21] tools_4.3.1       evaluate_0.21     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"             "simAutoReg"     "abind"
#> [5] "arrow"          "ash"            "askpass"        "assertthat"
#> [9] "backports"      "base64enc"      "betaDelta"      "betaMC"
#> [13] "betaNB"         "betaSandwich"   "BH"             "bibtex"
#> [17] "BiocManager"    "bit"            "bit64"          "bitops"
#> [21] "blob"           "brew"           "brio"           "broom"
#> [25] "bslib"          "cachem"         "callr"          "car"
#> [29] "carData"        "cellranger"     "cfr"            "checkmate"
#> [33] "cli"            "clipr"          "clock"          "collections"
#> [37] "colorspace"     "commonmark"     "conflicted"     "corpcor"
#> [41] "covr"           "cpp11"          "crayon"         "credentials"
#> [45] "curl"           "cyclocomp"      "data.table"     "DBI"
#> [49] "dbplyr"         "desc"           "deSolve"        "devtools"
#> [53] "diagram"        "dials"          "DiceDesign"     "diffobj"
#> [57] "digest"         "distrib"        "docopt"         "downlit"
#> [61] "dplyr"          "dtplyr"         "duckdb"         "dynr"
#> [65] "ellipsis"       "evaluate"       "fans"          "farver"
#> [69] "fastmap"        "fclust"         "fda"            "fdrtool"
#> [73] "fds"           "FNN"            "fontawesome"    "forcats"
#> [77] "foreach"        "Formula"        "fs"             "fst"
#> [81] "fstcore"        "furrr"          "future"         "future.apply"
#> [85] "gargle"         "generics"       "gert"           "ggplot2"
#> [89] "gh"             "gitcreds"       "glasso"         "glmnet"
#> [93] "globals"        "glue"           "googledrive"    "googlesheets4"
#> [97] "gower"          "GPfit"          "gridExtra"      "gtable"
#> [101] "gtools"         "hardhat"        "haven"          "hdcrcde"
#> [105] "highr"          "Hmisc"          "hms"            "htmlTable"
#> [109] "htmltools"      "htmlwidgets"    "httpgd"         "httpuv"
#> [113] "httr"           "httr2"          "ids"            "ifftools"
#> [117] "igraph"         "infer"          "ini"            "ipred"
#> [121] "isoband"        "iterators"      "jomo"           "jpeg"
#> [125] "jquerylib"      "jsonlite"       "jsonvalidate"    "kernlab"
#> [129] "knitr"          "ks"             "labeling"       "Lahman"
#> [133] "languageserver" "later"          "latex2exp"      "lava"
#> [137] "lavaan"         "lazyeval"       "lhs"            "lifecycle"
#> [141] "lintr"          "listenv"        "littler"        "lme4"
#> [145] "locfit"         "lubridate"      "magick"         "magrittr"
```

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

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