

# 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 22.04.2 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_0.0.3
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1  R6_2.5.1         lubridate_1.9.2  xfun_0.39
#>  [5] magrittr_2.0.3   glue_1.6.2       stringr_1.5.0    knitr_1.43
#>  [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_1.4.6       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

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

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

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

```

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