

# Session Info

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## Session

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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

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

```
#> [1] "devtools"      "rProject"      "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"        "distribro"     "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/>