

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.4.0 (2024-04-24)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.45
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.47
#>  [9] timechange_0.3.0 generics_0.1.3    lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1     compiler_4.4.0   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.0
#> [21] evaluate_0.24.0  Rcpp_1.0.12      RefManageR_1.4.0 rlang_1.1.4
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#> [25] jsonlite_1.8.8 stringi_1.8.4
```

## Packages

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

```
#> [1] "cli" "crayon" "downlit" "evaluate"
#> [5] "rlang" "rProject" "simStateSpace" "tinytex"
#> [9] "xfun" "abind" "arrow" "ash"
#> [13] "AsioHeaders" "askpass" "assertthat" "backports"
#> [17] "base64enc" "betaDelta" "betaMC" "betaNB"
#> [21] "betaSandwich" "BH" "bibtex" "BiocManager"
#> [25] "bit" "bit64" "bitops" "blob"
#> [29] "brew" "brio" "broom" "bslib"
#> [33] "cachem" "callr" "car" "caracas"
#> [37] "carData" "cellranger" "cfrfr" "checkmate"
#> [41] "cli" "clipr" "clock" "coda"
#> [45] "c0de" "collections" "colorspace" "commonmark"
#> [49] "conflicted" "corpcor" "covr" "cowplot"
#> [53] "cpp11" "crayon" "credentials" "crosstalk"
#> [57] "cTMed" "ctsem" "curl" "cyclocomp"
#> [61] "data.table" "DBI" "dbplyr" "Deriv"
#> [65] "desc" "deSolve" "devtools" "diagram"
#> [69] "dials" "DiceDesign" "diffobj" "digest"
#> [73] "distributional" "distrib" "doBy" "docopt"
#> [77] "doFuture" "downlit" "dplyr" "DT"
#> [81] "dtplyr" "duckdb" "dynr" "dynUtils"
#> [85] "ellipse" "ellipsis" "evaluate" "expm"
#> [89] "fans" "farver" "fastDummies" "fastmap"
#> [93] "fclust" "fda" "fdrtool" "fds"
#> [97] "FNN" "fontawesome" "forcats" "foreach"
#> [101] "Formula" "fs" "fst" "fstcore"
#> [105] "furry" "future" "future.apply" "gargle"
#> [109] "generics" "gert" "ggplot2" "ggrepel"
#> [113] "gh" "gitcreds" "glasso" "glmnet"
#> [117] "globals" "glue" "googledrive" "googlesheets4"
#> [121] "gower" "GPfit" "gridExtra" "gsubfn"
#> [125] "gtable" "gttools" "hardhat" "haven"
#> [129] "hdcrcde" "here" "highr" "Hmisc"
#> [133] "hms" "htmlTable" "htmltools" "htmlwidgets"
#> [137] "httpgd" "httpuv" "httr" "httr2"
#> [141] "ids" "ifftools" "igraph" "infer"
#> [145] "ini" "inline" "ipred" "isoband"
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#> [149] "iterators"      "jomo"      "jpeg"      "jquerylib"
#> [153] "jsonlite"       "jsonvalidate" "kernlab"    "knitr"
#> [157] "ks"            "labeling"   "Lahman"     "languageserver"
#> [161] "later"         "latex2exp"  "lava"       "lavaan"
#> [165] "lazyeval"      "lhs"       "lifecycle"  "lintr"
#> [169] "listenv"       "littler"   "lme4"       "locfit"
#> [173] "longMI"        "loo"       "lubridate"  "magick"
#> [177] "magrittr"      "markdown"  "MatrixModels" "matrixStats"
#> [181] "mclust"        "memoise"   "metaSEM"    "mice"
#> [185] "microbenchmark" "mime"      "miniUI"     "minqa"
#> [189] "mitml"         "mize"      "mnormt"     "modeldata"
#> [193] "modelenv"      "modelr"    "MplusAutomation" "multicool"
#> [197] "munsell"       "mvtnorm"   "nloptr"     "numDeriv"
#> [201] "nycflights13"  "OpenMx"    "openssl"    "ordinal"
#> [205] "pan"           "pander"    "parallelly" "parsnip"
#> [209] "patchwork"     "pbapply"   "pbivnorm"   "pbkrtest"
#> [213] "pcaPP"         "pdftools"  "pillar"     "pkgbuild"
#> [217] "pkgconfig"     "pkgdown"   "pkgload"    "plogr"
#> [221] "plyr"          "png"       "posterior"  "pracma"
#> [225] "praise"        "prettyunits" "printr"     "processx"
#> [229] "prodlim"       "profvis"   "progress"   "progressr"
#> [233] "promises"      "proto"     "ps"         "psych"
#> [237] "purrr"         "qgraph"    "qpdf"       "quadprog"
#> [241] "quantreg"      "quarto"    "QuickJSR"   "R.cache"
#> [245] "R.methodsS3"   "R.oo"      "R.utils"    "R6"
#> [249] "ragg"          "rainbow"   "rappdirs"   "rbibutils"
#> [253] "rcmdcheck"     "RColorBrewer" "Rcpp"       "RcppArmadillo"
#> [257] "RcppEigen"     "RcppGSL"    "RcppParallel" "RcppTOML"
#> [261] "RCurl"         "Rdpack"     "readr"      "readxl"
#> [265] "recipes"       "RefManageR" "rematch"    "rematch2"
#> [269] "remotes"       "reprex"    "reshape2"   "reticulate"
#> [273] "rex"           "rhub"      "rlang"      "RMariaDB"
#> [277] "rmarkdown"     "roxygen2"   "rpf"        "RPostgres"
#> [281] "rProject"      "rprojroot" "rsample"    "RSQLite"
#> [285] "rstan"         "rstantools" "rstudioapi" "rversions"
#> [289] "rvest"         "Ryacas"    "sass"       "scales"
#> [293] "selectr"       "semlbci"   "semmcci"    "sessioninfo"
#> [297] "shape"         "shiny"     "simStateSpace" "slider"
#> [301] "snow"          "snowfall"  "sourcetools" "SparseM"
#> [305] "SQUAREM"       "StanHeaders" "statmod"    "stringi"
#> [309] "stringr"       "styler"    "symSEM"     "sys"
#> [313] "systemfonts"   "tensorA"   "testthat"   "texreg"
#> [317] "textshaping"   "tibble"    "tidymodels" "tidyr"
#> [321] "tidyselect"     "tidyverse" "timechange"  "timeDate"
#> [325] "tinytex"       "tune"      "tzdb"       "ucminf"

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#> [329] "unigd"          "urlchecker"    "usethis"       "utf8"
#> [333] "uuid"          "v8"            "vctrs"         "viridis"
#> [337] "viridisLite"   "vroom"         "waldo"         "warp"
#> [341] "whisker"       "whoami"        "withr"         "workflows"
#> [345] "workflowsets"  "xfun"          "xml2"          "xmlparsedata"
#> [349] "xopen"         "xtable"        "yaml"          "yardstick"
#> [353] "zip"           "base"          "boot"          "class"
#> [357] "cluster"       "codetools"     "compiler"      "datasets"
#> [361] "foreign"       "graphics"      "grDevices"     "grid"
#> [365] "KernSmooth"   "lattice"       "MASS"          "Matrix"
#> [369] "methods"      "mgcv"          "nlme"          "nnet"
#> [373] "parallel"     "rpart"         "spatial"       "splines"
#> [377] "stats"        "stats4"        "survival"      "tcltk"
#> [381] "tools"        "utils"

```

## References

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing, Vienna, Austria. <https://www.R-project.org/>