

# 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_0.44
#>  [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_3.6.2.9000  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_0.23    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] "simStateSpace" "abind" "arrow" "ash"
#> [5] "AsioHeaders" "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" "caracas"
#> [29] "carData" "cellranger" "cfr" "checkmate"
#> [33] "cli" "clipr" "clock" "coda"
#> [37] "c0de" "collections" "colorspace" "commonmark"
#> [41] "conflicted" "corpcor" "covr" "cowplot"
#> [45] "cpp11" "crayon" "credentials" "crosstalk"
#> [49] "cTMed" "ctsem" "curl" "cyclocomp"
#> [53] "data.table" "DBI" "dbplyr" "Deriv"
#> [57] "desc" "deSolve" "devtools" "diagram"
#> [61] "dials" "DiceDesign" "diffobj" "digest"
#> [65] "distributional" "distrib" "doBy" "docopt"
#> [69] "doFuture" "downlit" "dplyr" "DT"
#> [73] "dtplyr" "duckdb" "dynr" "dynUtils"
#> [77] "ellipse" "ellipsis" "evaluate" "expm"
#> [81] "fansI" "farver" "fastDummies" "fastmap"
#> [85] "fclust" "fda" "fdrtool" "fds"
#> [89] "FNN" "fontawesome" "forcats" "foreach"
#> [93] "Formula" "fs" "fst" "fstcore"
#> [97] "furrr" "future" "future.apply" "gargle"
#> [101] "generics" "gert" "ggplot2" "ggrepel"
#> [105] "gh" "gitcreds" "glasso" "glmnet"
#> [109] "globals" "glue" "googledrive" "googlesheets4"
#> [113] "gower" "GPfit" "gridExtra" "gsubfn"
#> [117] "gtable" "gttools" "hardhat" "haven"
#> [121] "hdcrcde" "here" "highr" "Hmisc"
#> [125] "hms" "htmlTable" "htmltools" "htmlwidgets"
#> [129] "httpgd" "httpuv" "httr" "httr2"
#> [133] "ids" "ifftools" "igraph" "infer"
#> [137] "ini" "inline" "ipred" "isoband"
#> [141] "iterators" "jomo" "jpeg" "jquerylib"
#> [145] "jsonlite" "jsonvalidate" "kernlab" "knitr"
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#> [149] "ks" "labeling" "Lahman" "languageserver"
#> [153] "later" "latex2exp" "lava" "lavaan"
#> [157] "lazyeval" "lhs" "lifecycle" "lintr"
#> [161] "listenv" "littler" "lme4" "locfit"
#> [165] "longMI" "loo" "lubridate" "magick"
#> [169] "magrittr" "markdown" "MatrixModels" "matrixStats"
#> [173] "mclust" "memoise" "metaSEM" "mice"
#> [177] "microbenchmark" "mime" "miniUI" "minqa"
#> [181] "mitml" "mize" "mnormt" "modeldata"
#> [185] "modelenv" "modelr" "MplusAutomation" "multicool"
#> [189] "munsell" "mvtnorm" "nloptr" "numDeriv"
#> [193] "nycflights13" "OpenMx" "openssl" "ordinal"
#> [197] "pan" "pander" "parallelly" "parsnip"
#> [201] "patchwork" "pbapply" "pbivnorm" "pbkrtest"
#> [205] "pcaPP" "pdftools" "pillar" "pkgbuild"
#> [209] "pkgconfig" "pkgdown" "pkgload" "plogr"
#> [213] "plyr" "png" "posterior" "pracma"
#> [217] "praise" "prettyunits" "printr" "processx"
#> [221] "prodlim" "profvis" "progress" "progressr"
#> [225] "promises" "proto" "ps" "psych"
#> [229] "purrr" "qgraph" "qpdf" "quadprog"
#> [233] "quantreg" "quarto" "QuickJSR" "R.cache"
#> [237] "R.methodsS3" "R.oo" "R.utils" "R6"
#> [241] "ragg" "rainbow" "rappdirs" "rbibutils"
#> [245] "rcmdcheck" "RColorBrewer" "Rcpp" "RcppArmadillo"
#> [249] "RcppEigen" "RcppGSL" "RcppParallel" "RcppTOML"
#> [253] "RCurl" "Rdpack" "readr" "readxl"
#> [257] "recipes" "RefManageR" "rematch" "rematch2"
#> [261] "remotes" "reprex" "reshape2" "reticulate"
#> [265] "rex" "rhub" "rlang" "RMariaDB"
#> [269] "rmarkdown" "roxygen2" "rpf" "RPostgres"
#> [273] "rProject" "rprojroot" "rsample" "RSQLite"
#> [277] "rstan" "rstantools" "rstudioapi" "rversions"
#> [281] "rvest" "Ryacas" "sass" "scales"
#> [285] "selectr" "semlbci" "semmccci" "sessioninfo"
#> [289] "shape" "shiny" "simStateSpace" "slider"
#> [293] "snow" "snowfall" "sourcetools" "SparseM"
#> [297] "SQUAREM" "StanHeaders" "statmod" "stringi"
#> [301] "stringr" "styler" "symSEM" "sys"
#> [305] "systemfonts" "tensorA" "testthat" "texreg"
#> [309] "textshaping" "tibble" "tidymodels" "tidyr"
#> [313] "tidyselect" "tidyverse" "timechange" "timeDate"
#> [317] "tinytex" "tune" "tzdb" "ucminf"
#> [321] "unigd" "urlchecker" "usethis" "utf8"
#> [325] "uuid" "V8" "vctrs" "viridis"

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