

# 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_1.46
#>  [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_0.10
#> [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_1.1.3
```

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#> [25] jsonlite_1.8.8 stringi_1.8.4
```

## Packages

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

```
#> [1] "backports"      "rProject"      "simStateSpace" "abind"
#> [5] "arrow"          "ash"           "AsioHeaders"   "askpass"
#> [9] "assertthat"     "backports"     "base64enc"     "betaDelta"
#> [13] "betaMC"         "betaNB"        "betaSandwich"  "BH"
#> [17] "bibtex"         "BiocManager"   "bit"           "bit64"
#> [21] "bitops"         "blob"          "brew"          "brio"
#> [25] "broom"          "bslib"         "cachem"        "callr"
#> [29] "car"            "caracas"       "carData"       "cellranger"
#> [33] "cfr"           "checkmate"     "cli"           "clipr"
#> [37] "clock"         "coda"          "c0de"          "collections"
#> [41] "colorspace"     "commonmark"    "conflicted"    "corpcor"
#> [45] "covr"           "cowplot"       "cpp11"         "crayon"
#> [49] "credentials"    "crosstalk"     "cTMed"         "ctsem"
#> [53] "curl"          "cyclocomp"     "data.table"    "DBI"
#> [57] "dbplyr"         "Deriv"         "desc"          "deSolve"
#> [61] "devtools"       "diagram"       "dials"         "DiceDesign"
#> [65] "diffobj"        "digest"        "distributional" "distro"
#> [69] "doBy"           "docopt"        "doFuture"      "downlit"
#> [73] "dplyr"          "DT"           "dtplyr"        "duckdb"
#> [77] "dynr"           "dynUtils"      "ellipse"       "ellipsis"
#> [81] "evaluate"       "expm"          "fans"         "farver"
#> [85] "fastDummies"    "fastmap"       "fclust"        "fda"
#> [89] "fdrtool"        "fds"           "FNN"           "fontawesome"
#> [93] "forcats"        "foreach"       "Formula"       "fs"
#> [97] "fst"            "fstcore"       "furry"         "future"
#> [101] "future.apply"   "gargle"        "generics"      "gert"
#> [105] "ggplot2"        "ggrepel"       "gh"            "gitcreds"
#> [109] "glasso"         "glmnet"        "globals"       "glue"
#> [113] "googledrive"    "googlesheets4" "gower"         "GPfit"
#> [117] "gridExtra"      "gsubfn"        "gtable"        "gtools"
#> [121] "hardhat"        "haven"         "hdcrcde"       "here"
#> [125] "highr"          "Hmisc"         "hms"           "htmlTable"
#> [129] "htmltools"      "htmlwidgets"   "httpgd"        "httpuv"
#> [133] "httr"           "httr2"         "ids"           "ifftools"
#> [137] "igraph"         "infer"         "ini"           "inline"
#> [141] "ipred"          "isoband"       "iterators"     "jomo"
#> [145] "jpeg"          "jquerylib"     "jsonlite"      "jsonvalidate"
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#> [149] "kernlab"          "knitr"           "ks"              "labeling"
#> [153] "Lahman"           "languageserver"  "later"           "latex2exp"
#> [157] "lava"            "lavaan"          "lazyeval"        "lhs"
#> [161] "lifecycle"        "lintr"           "listenv"         "littler"
#> [165] "lme4"            "locfit"          "longMI"          "loo"
#> [169] "lubridate"        "magick"          "magrittr"        "markdown"
#> [173] "MatrixModels"     "matrixStats"     "mclust"          "memoise"
#> [177] "metaSEM"          "mice"            "microbenchmark"  "mime"
#> [181] "miniUI"           "minqa"           "mitml"           "mize"
#> [185] "mnormt"           "modeldata"       "modelenv"        "modelr"
#> [189] "MplusAutomation" "multicool"       "munsell"         "mvtnorm"
#> [193] "nloptr"           "numDeriv"        "nycflights13"    "OpenMx"
#> [197] "openssl"          "ordinal"         "pan"             "pander"
#> [201] "parallelly"       "parsnip"         "patchwork"       "pbapply"
#> [205] "pbivnorm"         "pbkrtest"        "pcaPP"           "pdftools"
#> [209] "pillar"           "pkgbuild"        "pkgconfig"       "pkgdown"
#> [213] "pkgload"          "plogr"           "plyr"            "png"
#> [217] "posterior"        "pracma"          "praise"          "prettyunits"
#> [221] "printr"           "processx"        "prodlim"         "profvis"
#> [225] "progress"         "progressr"       "promises"        "proto"
#> [229] "ps"              "psych"           "purrr"           "qgraph"
#> [233] "qpdf"             "quadprog"        "quantreg"        "quarto"
#> [237] "QuickJSR"         "R.cache"         "R.methodsS3"     "R.oo"
#> [241] "R.utils"          "R6"              "ragg"            "rainbow"
#> [245] "rappdirs"         "rbibutils"       "rcmdcheck"       "RColorBrewer"
#> [249] "Rcpp"             "RcppArmadillo"   "RcppEigen"       "RcppGSL"
#> [253] "RcppParallel"     "RcppTOML"        "RCurl"           "Rdpack"
#> [257] "readr"            "readxl"          "recipes"         "RefManagerR"
#> [261] "rematch"          "rematch2"        "remotes"         "reprex"
#> [265] "reshape2"         "reticulate"      "rex"             "rhub"
#> [269] "rlang"            "RMariaDB"        "rmarkdown"       "roxygen2"
#> [273] "rpf"             "RPostgres"       "rProject"        "rprojroot"
#> [277] "rsample"          "RSQLite"         "rstan"           "rstantools"
#> [281] "rstudioapi"       "rversions"       "rvest"           "Ryacac"
#> [285] "sass"             "scales"          "selectr"         "semlbci"
#> [289] "semmcci"          "sessioninfo"     "shape"           "shiny"
#> [293] "simStateSpace"    "slider"          "snow"            "snowfall"
#> [297] "sourcetools"      "SparseM"         "SQUAREM"         "StanHeaders"
#> [301] "statmod"          "stringi"         "stringr"         "styler"
#> [305] "symSEM"           "sys"             "systemfonts"     "tensorA"
#> [309] "testthat"         "texreg"          "textshaping"     "tibble"
#> [313] "tidymodels"       "tidyr"           "tidyselect"      "tidyverse"
#> [317] "timechange"       "timeDate"        "tinytex"         "tune"
#> [321] "tzdb"            "ucminf"          "unigd"           "urlchecker"
#> [325] "usethis"          "utf8"            "uuid"            "V8"

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