

# 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_1.4.1   R6_2.5.1          lubridate_1.9.3   xfun_0.43
#>  [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        rstudioapi_0.16.0
#> [21] tools_4.4.0       evaluate_0.23     Rcpp_1.0.12       RefManageR_1.4.0
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#> [25] rlang_1.1.3      jsonlite_1.8.8    stringi_1.8.4
```

## Packages

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

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#> [329] "utf8"          "uuid"          "V8"            "vctrs"
#> [333] "viridis"       "viridisLite"   "vroom"         "waldo"
#> [337] "warp"          "whisker"       "whoami"        "withr"
#> [341] "workflows"     "workflowsets"  "xfun"          "xml2"
#> [345] "xmlparsedata"  "xopen"         "xtable"        "yaml"
#> [349] "yardstick"     "zip"           "base"          "boot"
#> [353] "class"         "cluster"       "codetools"     "compiler"
#> [357] "datasets"      "foreign"       "graphics"      "grDevices"
#> [361] "grid"          "KernSmooth"   "lattice"       "MASS"
#> [365] "Matrix"        "methods"       "mgcv"          "nlme"
#> [369] "nnet"          "parallel"      "rpart"         "spatial"
#> [373] "splines"       "stats"         "stats4"        "survival"
#> [377] "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/>