Session Info

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Session

```r
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/libopenblasp-r0.3.20.so;  LAPACK version 3.10.
#>
#> 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_0.0.10
#>
#> 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       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_1.8.3
```

Packages

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

```
#>   [1] "dynUtils"        "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"     "cffr"            "checkmate"
#>  [33] "cli"             "clipr"          "clock"           "cOde"
#>  [37] "collections"     "colorspace"     "commonmark"      "conflicted"
#>  [41] "corpcor"         "covr"           "cpp11"           "crayon"
#>  [45] "credentials"     "crosstalk"      "cTMed"           "ctsem"
#>  [49] "curl"            "cyclocomp"      "data.table"      "DBI"
#>  [53] "dbplyr"          "Deriv"          "desc"            "deSolve"
#>  [57] "devtools"        "diagram"        "dials"           "DiceDesign"
#>  [61] "diffobj"         "digest"         "distributional"  "distro"
#>  [65] "doBy"            "docopt"         "doFuture"        "downlit"
#>  [69] "dplyr"           "DT"             "dtplyr"          "duckdb"
#>  [73] "dynr"            "dynUtils"       "ellipse"         "ellipsis"
#>  [77] "evaluate"        "expm"           "fansi"           "farver"
#>  [81] "fastmap"         "fclust"         "fda"             "fdrtool"
#>  [85] "fds"             "FNN"            "fontawesome"     "forcats"
#>  [89] "foreach"         "Formula"        "fs"              "fst"
#>  [93] "fstcore"         "furrr"          "future"          "future.apply"
#>  [97] "gargle"          "generics"       "gert"            "ggplot2"
#> [101] "ggrepel"         "gh"             "gitcreds"        "glasso"
#> [105] "glmnet"          "globals"        "glue"            "googledrive"
#> [109] "googlesheets4"   "gower"          "GPfit"           "gridExtra"
#> [113] "gtable"          "gtools"         "hardhat"         "haven"
#> [117] "hdrcde"          "here"           "highr"           "Hmisc"
#> [121] "hms"             "htmlTable"      "htmltools"       "htmlwidgets"
#> [125] "httpgd"          "httpuv"         "httr"            "httr2"
#> [129] "ids"             "ifaTools"       "igraph"          "infer"
#> [133] "ini"             "inline"         "ipred"           "isoband"
#> [137] "iterators"       "jomo"           "jpeg"            "jquerylib"
#> [141] "jsonlite"        "jsonvalidate"   "kernlab"         "knitr"
#> [145] "ks"              "labeling"       "Lahman"          "languageserver"
```

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#> [149] "later"          "latex2exp"      "lava"           "lavaan"
#> [153] "lazyeval"        "lhs"            "lifecycle"      "lintr"
#> [157] "listenv"         "littler"        "lme4"           "locfit"
#> [161] "longMI"          "loo"            "lubridate"      "magick"
#> [165] "magrittr"        "markdown"       "MatrixModels"   "matrixStats"
#> [169] "mclust"          "memoise"        "metaSEM"        "mice"
#> [173] "microbenchmark"  "mime"           "miniUI"         "minqa"
#> [177] "mitml"           "mize"           "mnormt"         "modeldata"
#> [181] "modelenv"        "modelr"         "multicool"      "munsell"
#> [185] "mvtnorm"         "nloptr"         "numDeriv"       "nycflights13"
#> [189] "OpenMx"          "openssl"        "ordinal"        "pan"
#> [193] "parallelly"      "parsnip"        "patchwork"      "pbapply"
#> [197] "pbivnorm"        "pbkrtest"       "pcaPP"          "pdftools"
#> [201] "pillar"          "pkgbuild"       "pkgconfig"      "pkgdown"
#> [205] "pkgload"         "plogr"          "plyr"           "png"
#> [209] "posterior"       "pracma"         "praise"         "prettyunits"
#> [213] "printr"          "processx"       "prodlim"        "profvis"
#> [217] "progress"        "progressr"      "promises"       "ps"
#> [221] "psych"           "purrr"          "qgraph"         "qpdf"
#> [225] "quadprog"        "quantreg"       "quarto"         "QuickJSR"
#> [229] "R.cache"         "R.methodsS3"    "R.oo"           "R.utils"
#> [233] "R6"              "ragg"           "rainbow"        "rappdirs"
#> [237] "rbibutils"       "rcmdcheck"      "RColorBrewer"   "Rcpp"
#> [241] "RcppArmadillo"   "RcppEigen"      "RcppGSL"        "RcppParallel"
#> [245] "RcppTOML"        "RCurl"          "Rdpack"         "readr"
#> [249] "readxl"          "recipes"        "RefManageR"     "rematch"
#> [253] "rematch2"        "remotes"        "reprex"         "reshape2"
#> [257] "reticulate"      "rex"            "rhub"           "rlang"
#> [261] "RMariaDB"        "rmarkdown"      "roxygen2"       "rpf"
#> [265] "RPostgres"       "rProject"       "rprojroot"      "rsample"
#> [269] "RSQLite"         "rstan"          "rstantools"     "rstudioapi"
#> [273] "rversions"       "rvest"          "Ryacas"         "sass"
#> [277] "scales"          "selectr"        "semlbci"        "semmcci"
#> [281] "sessioninfo"     "shape"          "shiny"          "simStateSpace"
#> [285] "slider"          "snow"           "snowfall"       "sourcetools"
#> [289] "SparseM"         "SQUAREM"        "StanHeaders"    "stringi"
#> [293] "stringr"         "styler"         "symSEM"         "sys"
#> [297] "systemfonts"     "tensorA"        "testthat"       "textshaping"
#> [301] "tibble"          "tidymodels"     "tidyr"          "tidyselect"
#> [305] "tidyverse"       "timechange"     "timeDate"       "tinytex"
#> [309] "tune"            "tzdb"           "ucminf"         "unigd"
#> [313] "urlchecker"      "usethis"        "utf8"           "uuid"
#> [317] "V8"              "vctrs"          "viridis"        "viridisLite"
#> [321] "vroom"           "waldo"          "warp"           "whisker"
#> [325] "whoami"          "withr"          "workflows"      "workflowsets"
```

```
#> [329] "xfun"        "xml2"         "xmlparsedata"   "xopen"
#> [333] "xtable"      "yaml"         "yardstick"      "zip"
#> [337] "base"        "boot"         "class"          "cluster"
#> [341] "codetools"   "compiler"     "datasets"       "foreign"
#> [345] "graphics"    "grDevices"    "grid"           "KernSmooth"
#> [349] "lattice"     "MASS"         "Matrix"         "methods"
#> [353] "mgcv"        "nlme"         "nnet"           "parallel"
#> [357] "rpart"       "spatial"      "splines"        "stats"
#> [361] "stats4"      "survival"     "tcltk"          "tools"
#> [365] "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/