Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.3.1 (2023-06-16)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> Running under: Ubuntu 22.04.2 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
#>
#> loaded via a namespace (and not attached):
#> [1] compiler_4.3.1     rprojroot_2.0.3     tools_4.3.1
#> [4] rProject_0.0.0.9000 highr_0.10          knitr_1.43
#> [7] xfun_0.39          evaluate_0.21
```

Packages

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

```
#>  [1] "betaDelta"      "abind"         "arrow"          "ash"
#>  [5] "askpass"        "assertthat"    "backports"      "base64enc"
#>  [9] "betaDelta"      "betaMC"        "betaNB"         "betaSandwich"
#> [13] "BH"             "bibtex"        "BiocManager"    "bit"
#> [17] "bit64"          "bitops"        "blob"           "brew"
#> [21] "brio"           "broom"         "bslib"          "cachem"
#> [25] "callr"          "car"           "carData"        "cellranger"
#> [29] "cffr"           "checkmate"     "cli"            "clipr"
#> [33] "clock"          "collections"   "colorspace"     "commonmark"
#> [37] "conflicted"     "corpcor"       "covr"           "cpp11"
#> [41] "crayon"         "credentials"   "curl"           "cyclocomp"
#> [45] "data.table"     "DBI"           "dbplyr"         "desc"
#> [49] "deSolve"        "devtools"      "diagram"        "dials"
```

```
#>  [53] "DiceDesign"     "diffobj"        "digest"         "distro"
#>  [57] "docopt"         "downlit"        "dplyr"          "dtplyr"
#>  [61] "duckdb"         "dynr"           "ellipsis"       "evaluate"
#>  [65] "fansi"          "farver"         "fastmap"        "fclust"
#>  [69] "fda"            "fdrtool"        "fds"            "FNN"
#>  [73] "fontawesome"    "forcats"        "foreach"        "Formula"
#>  [77] "fs"             "fst"            "fstcore"        "furrr"
#>  [81] "future"         "future.apply"   "gargle"         "generics"
#>  [85] "gert"           "ggplot2"        "gh"             "gitcreds"
#>  [89] "glasso"         "glmnet"         "globals"        "glue"
#>  [93] "googledrive"    "googlesheets4"  "gower"          "GPfit"
#>  [97] "gridExtra"      "gtable"         "gtools"         "hardhat"
#> [101] "haven"          "hdrcde"         "highr"          "Hmisc"
#> [105] "hms"            "htmlTable"      "htmltools"      "htmlwidgets"
#> [109] "httpgd"         "httpuv"         "httr"           "httr2"
#> [113] "ids"            "ifaTools"       "igraph"         "infer"
#> [117] "ini"            "ipred"          "isoband"        "iterators"
#> [121] "jomo"           "jpeg"           "jquerylib"      "jsonlite"
#> [125] "jsonvalidate"   "kernlab"        "knitr"          "ks"
#> [129] "labeling"       "Lahman"         "languageserver" "later"
#> [133] "latex2exp"      "lava"           "lavaan"         "lazyeval"
#> [137] "lhs"            "lifecycle"      "lintr"          "listenv"
#> [141] "littler"        "lme4"           "locfit"         "lubridate"
#> [145] "magick"         "magrittr"       "markdown"       "MatrixModels"
#> [149] "mclust"         "memoise"        "mice"           "microbenchmark"
#> [153] "mime"           "miniUI"         "minqa"          "misc3d"
#> [157] "mitml"          "mnormt"         "modeldata"      "modelenv"
```

```
#> [161] "modelr"         "multicool"      "munsell"        "mvtnorm"
#> [165] "nloptr"         "numDeriv"       "nycflights13"   "OpenMx"
#> [169] "openssl"        "ordinal"        "packrat"        "pan"
#> [173] "parallelly"     "parsedate"      "parsnip"        "patchwork"
#> [177] "pbapply"        "pbivnorm"       "pbkrtest"       "pcaPP"
#> [181] "pdftools"       "pillar"         "pkgbuild"       "pkgconfig"
#> [185] "pkgdown"        "pkgload"        "plogr"          "plot3D"
#> [189] "plyr"           "png"            "pracma"         "praise"
#> [193] "prettyunits"    "printr"         "processx"       "prodlim"
#> [197] "profvis"        "progress"       "progressr"      "promises"
#> [201] "ps"             "psych"          "purrr"          "qgraph"
#> [205] "qpdf"           "quadprog"       "quantreg"       "quarto"
#> [209] "R.cache"        "R.methodsS3"    "R.oo"           "R.utils"
#> [213] "R6"             "ragg"           "rainbow"        "rappdirs"
#> [217] "rbibutils"      "rcmdcheck"      "RColorBrewer"   "Rcpp"
#> [221] "RcppArmadillo"  "RcppEigen"      "RcppGSL"        "RcppParallel"
#> [225] "RCurl"          "Rdpack"         "readr"          "readxl"
#> [229] "recipes"        "RefManageR"     "rematch"        "rematch2"
#> [233] "remotes"        "reprex"         "reshape2"       "rex"
#> [237] "rhub"           "rlang"          "RMariaDB"       "rmarkdown"
#> [241] "roxygen2"       "rpf"            "RPostgres"      "rProject"
#> [245] "rprojroot"      "rsample"        "rsconnect"      "RSQLite"
#> [249] "rstudioapi"     "rversions"      "rvest"          "Ryacas"
#> [253] "sass"           "scales"         "selectr"        "semmcci"
#> [257] "sessioninfo"    "shape"          "shiny"          "slider"
#> [261] "snow"           "snowfall"       "sourcetools"    "SparseM"
#> [265] "SQUAREM"        "StanHeaders"    "stringi"        "stringr"
```

```
#> [269] "styler"       "sys"         "systemfonts"   "testthat"
#> [273] "textshaping"  "tibble"      "tidymodels"    "tidyr"
#> [277] "tidyselect"   "tidyverse"   "timechange"    "timeDate"
#> [281] "tinytex"      "tune"        "tzdb"          "ucminf"
#> [285] "urlchecker"   "usethis"     "utf8"          "uuid"
#> [289] "V8"           "vctrs"       "viridis"       "viridisLite"
#> [293] "vroom"        "waldo"       "warp"          "whisker"
#> [297] "whoami"       "withr"       "workflows"     "workflowsets"
#> [301] "xfun"         "xml2"        "xmlparsedata"  "xopen"
#> [305] "xtable"       "yaml"        "yardstick"     "zip"
#> [309] "base"         "boot"        "class"         "cluster"
#> [313] "codetools"    "compiler"    "datasets"      "foreign"
#> [317] "graphics"     "grDevices"   "grid"          "KernSmooth"
#> [321] "lattice"      "MASS"        "Matrix"        "methods"
#> [325] "mgcv"         "nlme"        "nnet"          "parallel"
#> [329] "rpart"        "spatial"     "splines"       "stats"
#> [333] "stats4"       "survival"    "tcltk"         "tools"
#> [337] "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/