Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.3.2 (2023-10-31)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> Running under: Ubuntu 22.04.3 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_0.0.8
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1  R6_2.5.1          lubridate_1.9.3  xfun_0.42
#>  [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.45
#>  [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_4.3.2   highr_0.10
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.3.2
#> [21] evaluate_0.23    Rcpp_1.0.12      RefManageR_1.4.0 rlang_1.1.3
```

```
#> [25] jsonlite_1.8.8   stringi_1.8.3
```

Packages

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

```
#>   [1] "cli"           "commonmark"    "devtools"       "expm"
#>   [5] "rProject"      "rsconnect"     "simStateSpace"  "testthat"
#>   [9] "tinytex"       "V8"            "xfun"           "abind"
#>  [13] "arrow"         "ash"           "askpass"        "assertthat"
#>  [17] "backports"     "base64enc"     "betaDelta"      "betaMC"
#>  [21] "betaNB"        "betaSandwich"  "BH"             "bibtex"
#>  [25] "BiocManager"   "bit"           "bit64"          "bitops"
#>  [29] "blob"          "brew"          "brio"           "broom"
#>  [33] "bslib"         "cachem"        "callr"          "car"
#>  [37] "caracas"       "carData"       "cellranger"     "cffr"
#>  [41] "checkmate"     "cli"           "clipr"          "clock"
#>  [45] "collections"   "colorspace"    "commonmark"     "conflicted"
#>  [49] "corpcor"       "covr"          "cpp11"          "crayon"
#>  [53] "credentials"   "crosstalk"     "curl"           "cyclocomp"
#>  [57] "data.table"    "DBI"           "dbplyr"         "Deriv"
#>  [61] "desc"          "deSolve"       "devtools"       "diagram"
#>  [65] "dials"         "DiceDesign"    "diffobj"        "digest"
#>  [69] "distro"        "doBy"          "docopt"         "downlit"
#>  [73] "dplyr"         "DT"            "dtplyr"         "duckdb"
#>  [77] "dynr"          "ellipse"       "ellipsis"       "evaluate"
#>  [81] "fansi"         "farver"        "fastmap"        "fclust"
#>  [85] "fda"           "fdrtool"       "fds"            "fitOU"
#>  [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"      "gtable"
#> [117] "gtools"        "hardhat"       "haven"          "hdrcde"
#> [121] "here"          "highr"         "Hmisc"          "hms"
#> [125] "htmlTable"     "htmltools"     "htmlwidgets"    "httpuv"
#> [129] "httr"          "httr2"         "ids"            "ifaTools"
#> [133] "igraph"        "infer"         "ini"            "ipred"
#> [137] "isoband"       "iterators"     "jomo"           "jpeg"
#> [141] "jquerylib"     "jsonlite"      "jsonvalidate"   "kernlab"
#> [145] "knitr"         "ks"            "labeling"       "Lahman"
```

```
#> [149] "languageserver" "later"         "latex2exp"       "lava"
#> [153] "lavaan"         "lazyeval"      "lhs"             "lifecycle"
#> [157] "lintr"          "listenv"       "littler"         "lme4"
#> [161] "locfit"         "longMI"        "lubridate"       "magick"
#> [165] "magrittr"       "markdown"      "MatrixModels"    "mclust"
#> [169] "memoise"        "metaSEM"       "mice"            "microbenchmark"
#> [173] "mime"           "miniUI"        "minqa"           "mitml"
#> [177] "mnormt"         "modeldata"     "modelenv"        "modelr"
#> [181] "multicool"      "munsell"       "mvtnorm"         "nloptr"
#> [185] "numDeriv"       "nycflights13"  "OpenMx"          "openssl"
#> [189] "ordinal"        "packrat"       "pan"             "parallelly"
#> [193] "parsedate"      "parsnip"       "patchwork"       "pbapply"
#> [197] "pbivnorm"       "pbkrtest"      "pcaPP"           "pdftools"
#> [201] "pillar"         "pkgbuild"      "pkgconfig"       "pkgdown"
#> [205] "pkgload"        "plogr"         "plyr"            "png"
#> [209] "pracma"         "praise"        "prettyunits"     "printr"
#> [213] "processx"       "prodlim"       "profvis"         "progress"
#> [217] "progressr"      "promises"      "ps"              "psych"
#> [221] "purrr"          "qgraph"        "qpdf"            "quadprog"
#> [225] "quantreg"       "quarto"        "R.cache"         "R.methodsS3"
#> [229] "R.oo"           "R.utils"       "R6"              "ragg"
#> [233] "rainbow"        "rappdirs"      "rbibutils"       "rcmdcheck"
#> [237] "RColorBrewer"   "Rcpp"          "RcppArmadillo"   "RcppEigen"
#> [241] "RcppGSL"        "RcppParallel"  "RcppTOML"        "RCurl"
#> [245] "Rdpack"         "readr"         "readxl"          "recipes"
#> [249] "RefManageR"     "rematch"       "rematch2"        "remotes"
#> [253] "renv"           "reprex"        "reshape2"        "reticulate"
#> [257] "rex"            "rhub"          "rlang"           "RMariaDB"
#> [261] "rmarkdown"      "roxygen2"      "rpf"             "RPostgres"
#> [265] "rProject"       "rprojroot"     "rsample"         "rsconnect"
#> [269] "RSQLite"        "rstudioapi"    "rversions"       "rvest"
#> [273] "Ryacas"         "sass"          "scales"          "selectr"
#> [277] "semlbci"        "semmcci"       "sessioninfo"     "shape"
#> [281] "shiny"          "simStateSpace" "slider"          "snow"
#> [285] "snowfall"       "sourcetools"   "SparseM"         "SQUAREM"
#> [289] "StanHeaders"    "stringi"       "stringr"         "styler"
#> [293] "symSEM"         "sys"           "systemfonts"     "testthat"
#> [297] "textshaping"    "tibble"        "tidymodels"      "tidyr"
#> [301] "tidyselect"     "tidyverse"     "timechange"      "timeDate"
#> [305] "tinytex"        "tune"          "tzdb"            "ucminf"
#> [309] "urlchecker"     "usethis"       "utf8"            "uuid"
#> [313] "V8"             "vctrs"         "viridis"         "viridisLite"
#> [317] "vroom"          "waldo"         "warp"            "whisker"
#> [321] "whoami"         "withr"         "workflows"       "workflowsets"
#> [325] "xfun"           "xml2"          "xmlparsedata"    "xopen"
```

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