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_0.0.7
#>
#> 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        rstudioapi_0.15.0
#> [21] tools_4.3.2       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_1.8.3
```

Packages

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

```
#>   [1] "commonmark"    "expm"          "httpuv"         "R.oo"
#>   [5] "roxygen2"      "rProject"      "rsconnect"      "simStateSpace"
#>   [9] "tinytex"       "xfun"          "zip"            "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"    "httpgd"
#> [129] "httpuv"        "httr"          "httr2"          "ids"
#> [133] "ifaTools"      "igraph"        "infer"          "ini"
#> [137] "ipred"         "isoband"       "iterators"      "jomo"
#> [141] "jpeg"          "jquerylib"     "jsonlite"       "jsonvalidate"
#> [145] "kernlab"       "knitr"         "ks"             "labeling"
```

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

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