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_0.41
#>  [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
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#> [25] jsonlite_1.8.8   stringi_1.8.3
```

Packages

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

```
#>   [1] "commonmark"     "rProject"       "rsconnect"      "simStateSpace"
#>   [5] "tinytex"        "abind"          "arrow"          "ash"
#>   [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"     "cffr"           "checkmate"      "cli"
#>  [37] "clipr"          "clock"          "collections"    "colorspace"
#>  [41] "commonmark"     "conflicted"     "corpcor"        "covr"
#>  [45] "cpp11"          "crayon"         "credentials"    "crosstalk"
#>  [49] "curl"           "cyclocomp"      "data.table"     "DBI"
#>  [53] "dbplyr"         "Deriv"          "desc"           "deSolve"
#>  [57] "devtools"       "diagram"        "dials"          "DiceDesign"
#>  [61] "diffobj"        "digest"         "distro"         "doBy"
#>  [65] "docopt"         "downlit"        "dplyr"          "DT"
#>  [69] "dtplyr"         "duckdb"         "dynr"           "ellipse"
#>  [73] "ellipsis"       "evaluate"       "fansi"          "farver"
#>  [77] "fastmap"        "fclust"         "fda"            "fdrtool"
#>  [81] "fds"            "fitOU"          "FNN"            "fontawesome"
#>  [85] "forcats"        "foreach"        "Formula"        "fs"
#>  [89] "fst"            "fstcore"        "furrr"          "future"
#>  [93] "future.apply"   "gargle"         "generics"       "gert"
#>  [97] "ggplot2"        "ggrepel"        "gh"             "gitcreds"
#> [101] "glasso"         "glmnet"         "globals"        "glue"
#> [105] "googledrive"    "googlesheets4"  "gower"          "GPfit"
#> [109] "gridExtra"      "gtable"         "gtools"         "hardhat"
#> [113] "haven"          "hdrcde"         "here"           "highr"
#> [117] "Hmisc"          "hms"            "htmlTable"      "htmltools"
#> [121] "htmlwidgets"    "httpuv"         "httr"           "httr2"
#> [125] "ids"            "ifaTools"       "igraph"         "infer"
#> [129] "ini"            "ipred"          "isoband"        "iterators"
#> [133] "jomo"           "jpeg"           "jquerylib"      "jsonlite"
#> [137] "jsonvalidate"   "kernlab"        "knitr"          "ks"
#> [141] "labeling"       "Lahman"         "languageserver" "later"
#> [145] "latex2exp"      "lava"           "lavaan"         "lazyeval"
```

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

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