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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1          lubridate_1.9.3  xfun_0.44
#>  [5] magrittr_2.0.3   glue_1.7.0        stringr_1.5.1    knitr_1.47
#>  [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_0.11
#> [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_1.1.4
```

```
#> [25] jsonlite_1.8.8   stringi_1.8.4
```

Packages

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

```
#>   [1] "simStateSpace"   "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"           "coda"
#>  [37] "cOde"            "collections"     "colorspace"      "commonmark"
#>  [41] "conflicted"      "corpcor"         "covr"            "cowplot"
#>  [45] "cpp11"           "crayon"          "credentials"     "crosstalk"
#>  [49] "cTMed"           "ctsem"           "curl"            "cyclocomp"
#>  [53] "data.table"      "DBI"             "dbplyr"          "Deriv"
#>  [57] "desc"            "deSolve"         "devtools"        "diagram"
#>  [61] "dials"           "DiceDesign"      "diffobj"         "digest"
#>  [65] "distributional"  "distro"          "doBy"            "docopt"
#>  [69] "doFuture"        "downlit"         "dplyr"           "DT"
#>  [73] "dtplyr"          "duckdb"          "dynr"            "dynUtils"
#>  [77] "ellipse"         "ellipsis"        "evaluate"        "expm"
#>  [81] "fansi"           "farver"          "fastDummies"     "fastmap"
#>  [85] "fclust"          "fda"             "fdrtool"         "fds"
#>  [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"       "gsubfn"
#> [117] "gtable"          "gtools"          "hardhat"         "haven"
#> [121] "hdrcde"          "here"            "highr"           "Hmisc"
#> [125] "hms"             "htmlTable"       "htmltools"       "htmlwidgets"
#> [129] "httpgd"          "httpuv"          "httr"            "httr2"
#> [133] "ids"             "ifaTools"        "igraph"          "infer"
#> [137] "ini"             "inline"          "ipred"           "isoband"
#> [141] "iterators"       "jomo"            "jpeg"            "jquerylib"
#> [145] "jsonlite"        "jsonvalidate"    "kernlab"         "knitr"
```

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

```
#> [329] "viridisLite"    "vroom"       "waldo"        "warp"
#> [333] "whisker"        "whoami"      "withr"        "workflows"
#> [337] "workflowsets"   "xfun"        "xml2"         "xmlparsedata"
#> [341] "xopen"          "xtable"      "yaml"         "yardstick"
#> [345] "zip"            "base"        "boot"         "class"
#> [349] "cluster"        "codetools"   "compiler"     "datasets"
#> [353] "foreign"        "graphics"    "grDevices"    "grid"
#> [357] "KernSmooth"     "lattice"     "MASS"         "Matrix"
#> [361] "methods"        "mgcv"        "nlme"         "nnet"
#> [365] "parallel"       "rpart"       "spatial"      "splines"
#> [369] "stats"          "stats4"      "survival"     "tcltk"
#> [373] "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/