Session Info

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Session

```r
sessionInfo()
```

```
#> R version 4.4.1 (2024-06-14)
#> 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.46
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.48
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000   bibtex_0.5.1     compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9       httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.13      RefManageR_1.4.0 rlang_1.1.4
#> [25] jsonlite_1.8.8   stringi_1.8.4
```

Packages

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

```
#>   [1] "bslib"        "cffr"         "devtools"     "gert"
#>   [5] "httr2"        "metaVAR"      "quarto"       "Rcpp"
#>   [9] "rProject"     "shiny"        "tinytex"      "usethis"
#>  [13] "withr"        "xfun"         "yaml"         "abind"
#>  [17] "arrow"        "ash"          "AsioHeaders"  "askpass"
#>  [21] "assertthat"   "backports"    "base64enc"    "betaDelta"
```

```
#>  [25] "betaMC"        "betaNB"          "betaSandwich"     "BH"
#>  [29] "bibtex"        "BiocManager"     "bit"              "bit64"
#>  [33] "bitops"        "blob"            "brew"             "brio"
#>  [37] "broom"         "bslib"           "cachem"           "callr"
#>  [41] "car"           "caracas"         "carData"          "cellranger"
#>  [45] "cffr"          "checkmate"       "cli"              "clipr"
#>  [49] "clock"         "coda"            "cOde"             "collections"
#>  [53] "colorspace"    "commonmark"      "conflicted"       "corpcor"
#>  [57] "covr"          "cowplot"         "cpp11"            "crayon"
#>  [61] "credentials"   "crosstalk"       "cTMed"            "ctsem"
#>  [65] "curl"          "cyclocomp"       "data.table"       "DBI"
#>  [69] "dbplyr"        "Deriv"           "desc"             "deSolve"
#>  [73] "devtools"      "diagram"         "dials"            "DiceDesign"
#>  [77] "diffobj"       "digest"          "distributional"   "distro"
#>  [81] "doBy"          "docopt"          "doFuture"         "downlit"
#>  [85] "dplyr"         "DT"              "dtplyr"           "duckdb"
#>  [89] "dynr"          "dynUtils"        "ellipse"          "ellipsis"
#>  [93] "evaluate"      "expm"            "fansi"            "farver"
#>  [97] "fastDummies"   "fastmap"         "fclust"           "fda"
#> [101] "fdrtool"       "fds"             "fitCTVARMx"       "fitDTVARMx"
#> [105] "FNN"           "fontawesome"     "forcats"          "foreach"
#> [109] "Formula"       "fs"              "fst"              "fstcore"
#> [113] "furrr"         "future"          "future.apply"     "gargle"
#> [117] "generics"      "gert"            "ggplot2"          "ggrepel"
#> [121] "gh"            "gitcreds"        "glasso"           "glmnet"
#> [125] "globals"       "glue"            "googledrive"      "googlesheets4"
#> [129] "gower"         "GPArotation"     "GPfit"            "gridExtra"
```

```
#> [133] "gsubfn"           "gtable"        "gtools"          "hardhat"
#> [137] "haven"            "hdrcde"        "here"            "highr"
#> [141] "Hmisc"            "hms"           "htmlTable"       "htmltools"
#> [145] "htmlwidgets"      "httpgd"        "httpuv"          "httr"
#> [149] "httr2"            "ids"           "ifaTools"        "igraph"
#> [153] "infer"            "ini"           "inline"          "ipred"
#> [157] "isoband"          "iterators"     "jomo"            "jpeg"
#> [161] "jquerylib"        "jsonlite"      "jsonvalidate"    "kernlab"
#> [165] "knitr"            "ks"            "labeling"        "Lahman"
#> [169] "languageserver"   "later"         "latex2exp"       "lava"
#> [173] "lavaan"           "lazyeval"      "lhs"             "lifecycle"
#> [177] "lintr"            "listenv"       "littler"         "lme4"
#> [181] "locfit"           "longMI"        "loo"             "lubridate"
#> [185] "magick"           "magrittr"      "markdown"        "MatrixModels"
#> [189] "matrixStats"      "mclust"        "memoise"         "metaSEM"
#> [193] "metaVAR"          "mice"          "microbenchmark"  "mime"
#> [197] "miniUI"           "minqa"         "mitml"           "mize"
#> [201] "mnormt"           "modeldata"     "modelenv"        "modelr"
#> [205] "MplusAutomation"  "multicool"     "munsell"         "mvtnorm"
#> [209] "nloptr"           "numDeriv"      "nycflights13"    "OpenMx"
#> [213] "openssl"          "ordinal"       "pan"             "pander"
#> [217] "parallelly"       "parsnip"       "patchwork"       "pbapply"
#> [221] "pbivnorm"         "pbkrtest"      "pcaPP"           "pdftools"
#> [225] "pillar"           "pkgbuild"      "pkgconfig"       "pkgdown"
#> [229] "pkgload"          "plogr"         "plyr"            "png"
#> [233] "posterior"        "pracma"        "praise"          "prettyunits"
#> [237] "printr"           "processx"      "prodlim"         "profvis"
```

```
#> [241] "progress"      "progressr"      "promises"       "proto"
#> [245] "ps"            "psych"          "purrr"          "qgraph"
#> [249] "qpdf"          "quadprog"       "quantreg"       "quarto"
#> [253] "QuickJSR"      "R.cache"        "R.methodsS3"    "R.oo"
#> [257] "R.utils"       "R6"             "ragg"           "rainbow"
#> [261] "rappdirs"      "rbibutils"      "rcmdcheck"      "RColorBrewer"
#> [265] "Rcpp"          "RcppArmadillo"  "RcppEigen"      "RcppGSL"
#> [269] "RcppParallel"  "RcppTOML"       "RCurl"          "Rdpack"
#> [273] "readr"         "readxl"         "recipes"        "RefManageR"
#> [277] "rematch"       "rematch2"       "remotes"        "reprex"
#> [281] "reshape2"      "reticulate"     "rex"            "rhub"
#> [285] "rlang"         "RMariaDB"       "rmarkdown"      "roxygen2"
#> [289] "rpf"           "RPostgres"      "rProject"       "rprojroot"
#> [293] "rsample"       "RSQLite"        "rstan"          "rstantools"
#> [297] "rstudioapi"    "rversions"      "rvest"          "Ryacas"
#> [301] "sass"          "scales"         "selectr"        "semlbci"
#> [305] "semmcci"       "sessioninfo"    "shape"          "shiny"
#> [309] "simStateSpace" "slider"         "snow"           "snowfall"
#> [313] "sourcetools"   "SparseM"        "SQUAREM"        "StanHeaders"
#> [317] "statmod"       "stringi"        "stringr"        "styler"
#> [321] "symSEM"        "sys"            "systemfonts"    "tensorA"
#> [325] "testthat"      "texreg"         "textshaping"    "tibble"
#> [329] "tidymodels"    "tidyr"          "tidyselect"     "tidyverse"
#> [333] "timechange"    "timeDate"       "tinytex"        "tune"
#> [337] "tzdb"          "ucminf"         "unigd"          "urlchecker"
#> [341] "usethis"       "utf8"           "uuid"           "V8"
#> [345] "vctrs"         "viridis"        "viridisLite"    "vroom"
```

```
#> [349] "waldo"        "warp"          "whisker"       "whoami"
#> [353] "withr"        "workflows"     "workflowsets"  "xfun"
#> [357] "xml2"         "xmlparsedata"  "xopen"         "xtable"
#> [361] "yaml"         "yardstick"     "zip"           "base"
#> [365] "boot"         "class"         "cluster"       "codetools"
#> [369] "compiler"     "datasets"      "foreign"       "graphics"
#> [373] "grDevices"    "grid"          "KernSmooth"    "lattice"
#> [377] "MASS"         "Matrix"        "methods"       "mgcv"
#> [381] "nlme"         "nnet"          "parallel"      "rpart"
#> [385] "spatial"      "splines"       "stats"         "stats4"
#> [389] "survival"     "tcltk"         "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/